(FILE 'HOME' ENTERED AT 17:12:13 ON 05 FEB 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH, USPATFULL, JAPIO' ENTERED AT 17:12:24 ON 05 FEB 2002

L1	14	S LAL, ALTAF/AU
L2	46	S SHI, YA PING/AU
L3	20	DUP REM L2 (26 DUPLICATES REMOVED)
L4	114	S HASNAIN, SEYED E/AU
L5	74	DUP REM L4 (40 DUPLICATES REMOVED)
L6	5	S L5 AND PLASMODIUM
L7	75133	S PLASMODIUM FALCIPARUM
L8	19983	S L7 AND PROTEIN
L9	2663	S L8 AND STAGES
L10	497	S L9 AND EPITOPES
L11	277	DUP REM L10 (220 DUPLICATES REMOVED)
L12	112	S L11 AND T CELL
L13	112	DUP REM L12 (0 DUPLICATES REMOVED)

ACCESSION NUMBER: 2002:19196 USPATFULL
TITLE: Eukaryotic layered vector initiation systems for production of recombinant **proteins**
INVENTOR(S): Dubensky, Jr., Thomas W., Rancho Sante Fe, CA, United States
Polo, John M., San Diego, CA, United States
Driver, David A., San Diego, CA, United States
PATENT ASSIGNEE(S): Chiron Corporation, Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6342372	B1	20020129
APPLICATION INFO.:	US 1999-350399		19990708 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-931783, filed on 16 Sep 1997, now abandoned Division of Ser. No. US 1995-404796, filed on 15 Mar 1995, now patented, Pat. No. US 6015686 Continuation-in-part of Ser. No. US 1995-376184, filed on 20 Jan 1995, now abandoned Continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned Continuation-in-part of Ser. No. US 1994-198450, filed on 18 Feb 1994, now abandoned Continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: McMasters, David D., Dollard, Anne S., Blackburn, Robert P.
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 37 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10217

L13 ANSWER 2 OF 112 USPATFULL
ACCESSION NUMBER: 2001:237483 USPATFULL
TITLE: Detection and treatment of infections with immunoconjugates
INVENTOR(S): Goldenberg, M. David, Short Hills, NJ, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001055595	A1	20011227
APPLICATION INFO.:	US 2001-935567	A1	20010824 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-158782, filed on 1 Dec 1993, PENDING Division of Ser. No. US 1993-37659, filed on 22 Mar 1993, GRANTED, Pat. No. US 5332567 Continuation of Ser. No. US 1992-840591, filed on 18 Feb 1992, ABANDONED Continuation of Ser. No. US 1989-399566, filed on 24 Aug 1989, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Bernhard D. Saxe, FOLEY & LARDNER, Washington Harbour, 3000 K Street, N.W., Suite 500, Washington, DC, 20007-5109
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
LINE COUNT: 1499
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 3 OF 112 USPATFULL
ACCESSION NUMBER: 2001:208480 USPATFULL
TITLE: Detection and treatment of infections with immunoconjugates

INVENTOR(S): Goldenberg, M. David, Short Hills, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6319500	B1	20011120
APPLICATION INFO.:	US 1993-158782		19931201 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-37659, filed on 22 Mar 1993, now patented, Pat. No. US 5332567 Continuation of Ser. No. US 1992-840591, filed on 18 Feb 1992, now abandoned Continuation of Ser. No. US 1989-399566, filed on 24 Aug 1989, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Housel, James
ASSISTANT EXAMINER: Nelson, Brett
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 31
EXEMPLARY CLAIM: 1
LINE COUNT: 1529
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 4 OF 112 USPATFULL
ACCESSION NUMBER: 2001:202197 USPATFULL
TITLE: Cloning and expression of **plasmodium falciparum** transmission-blocking target antigen, PFS230
INVENTOR(S): Williamson, Kim C., Rockville, MD, United States
Kaslow, David C., Kensington, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6316000	B1	20011113
APPLICATION INFO.:	US 1997-954441		19971020 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-323170, filed on 13 Oct 1994, now patented, Pat. No. US 5733772 Continuation of Ser. No. US 1993-10409, filed on 29 Jan 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLC
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 846
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 5 OF 112 USPATFULL
ACCESSION NUMBER: 2001:191105 USPATFULL
TITLE: Agouti polypeptide compositions
INVENTOR(S): Woychik, Richard P., Orinda, CA, United States
Bultman, Scott J., Lakewood, OH, United States
Michaud, Edward J., Kingston, TN, United States
PATENT ASSIGNEE(S): UT-Battelle, LLC, Oak Ridge, TN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6310034	B1	20011030

APPLICATION INFO.: US 1998-34088 19980303 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-64385, filed on 21 May 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Kammerer, Elyabik C.
LEGAL REPRESENTATIVE: Williams, Morgan & Amerson
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 83 Drawing Figure(s); 41 Drawing Page(s)
LINE COUNT: 10935
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 6 OF 112 USPATFULL
ACCESSION NUMBER: 2001:162992 USPATFULL
TITLE: Multideterminant peptides that elicit helper T-lymphocyte cytotoxic T-lymphocyte and neutralizing antibody responses against HIV-1
INVENTOR(S): Berzofsky, Jay A., Bethesda, MD, United States
Ahlers, Jeffrey D., Kensington, MD, United States
Pendleton, C. David, Bethesda, MD, United States
Nara, Peter, Frederick, MD, United States
Shirai, Mutsunori, Kita-gun, Japan
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6294322	B1	20010925
APPLICATION INFO.:	US 1993-60988		19930514 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1992-847311, filed on 6 Mar 1992 Continuation-in-part of Ser. No. US 1988-148692, filed on 26 Jan 1988, now abandoned , said Ser. No. US 847311 And Ser. No. US 1991-751998, filed on 29 Aug 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Parkin, Jeffrey S.
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1,2
NUMBER OF DRAWINGS: 49 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 2006
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 7 OF 112 USPATFULL
ACCESSION NUMBER: 2001:131062 USPATFULL
TITLE: Nucleic acid molecules encoding monocyte chemotactic **protein** 5 (MCP-5) molecules and uses therefor
INVENTOR(S): Gutierrez-Ramos, Jose-Carlos, Marblehead, MA, United States
Jia, Gui-Quan, Cambridge, MA, United States
Gonzalo, Jose-Angel, Cambridge, MA, United States
PATENT ASSIGNEE(S): Center for Blood Research, Inc., Boston, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6274342	B1	20010814
APPLICATION INFO.:	US 1996-744419		19961108 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Mertz, Prema

LEGAL REPRESENTATIVE: Lahive & Cockfield, LLP, Mandragouras, Amy E., Laccotripe, Maria C.
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 3696
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 8 OF 112 USPATFULL
ACCESSION NUMBER: 2001:111840 USPATFULL
TITLE: Retro-, inverso- and retro-inverso synthetic peptide analogues
INVENTOR(S): Comis, Alfio, Bossley Park, Australia
Tyler, Margaret Isabel, Turramurra, Australia
Fischer, Peter, Oslo, Norway
PATENT ASSIGNEE(S): Deakin Research Limited, New South Wales, Australia (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6261569	B1	20010717	
	WO 9405311		19940317	
APPLICATION INFO.:	US 1997-909551		19970812	(8)
	WO 1993-AU441		19930827	
			19950424	PCT 371 date
			19950424	PCT 102(e) date

RELATED APPLN. INFO.: Continuation of Ser. No. US 387932, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1992-4374	19920827

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Allen, Marianne P.
ASSISTANT EXAMINER: Zeman, Mary K.
LEGAL REPRESENTATIVE: Howson and Howson
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 1585
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 9 OF 112 USPATFULL
ACCESSION NUMBER: 2001:51571 USPATFULL
TITLE: Multideterminant peptides that elicit helper T-lymphocyte, cytotoxic T lymphocyte and neutralizing antibody responses against HIV-1
INVENTOR(S): Berzofsky, Jay A., Bethesda, MD, United States
Ahlers, Jeffrey D., Kensington, MD, United States
Pendleton, C. David, Bethesda, MD, United States
Nara, Peter, Frederick, MD, United States
Shirai, Mutsunori, Kagawa, Japan
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6214347	B1	20010410	
APPLICATION INFO.:	US 1995-455685		19950531	(8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-60988, filed on 14 May 1993 Continuation-in-part of Ser. No. US 1992-847311, filed on 6 Mar 1992, now patented, Pat. No. US 5976541 Continuation-in-part of Ser. No. US 1991-751998, filed

on 29 Aug 1991, now abandoned Continuation-in-part of Ser. No. US 1988-148692, filed on 26 Jan 1988, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Scheiner, Laurie
ASSISTANT EXAMINER: Parkin, Jeffrey S.
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 1977
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 10 OF 112 USPATFULL
ACCESSION NUMBER: 2001:1858 USPATFULL
TITLE: Hybrid **protein** between CS from plasmodium and HBSAG
INVENTOR(S): De Wilde, Michel, Glabais, Belgium
Cohen, Joseph, Brussels, Belgium
PATENT ASSIGNEE(S): SmithKline Beecham Biologicals (s.a.), Rixensart, Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6169171	B1	20010102
APPLICATION INFO.:	US 1997-932929		19970918 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-663371, filed on 13 Jun 1996, now abandoned Continuation of Ser. No. US 244085, now abandoned Continuation-in-part of Ser. No. US 1992-842694, filed on 27 Feb 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita
LEGAL REPRESENTATIVE: Baumeister, Kirk, King, William T.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 1018
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 11 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:345331 BIOSIS
DOCUMENT NUMBER: PREV200100345331
TITLE: Human antibodies against **Plasmodium falciparum** liver-stage antigen 3 cross-react with Plasmodium yoelii preerythrocytic-stage **epitopes** and inhibit sporozoite invasion in vitro and in vivo.
AUTHOR(S): Brahimi, Karima; Badell, Edgar; Sauzet, Jean-Pierre; BenMohamed, Lbachir; Daubersies, Pierre; Guerin-Marchand, Claudine; Snounou, George; Druilhe, Pierre (1)
CORPORATE SOURCE: (1) Bio-Medical Parasitology Unit, Institut Pasteur, 28, Rue du Docteur Roux, 75015, Paris: druilhe@pasteur.fr France
SOURCE: Infection and Immunity, (June, 2001) Vol. 69, No. 6, pp. 3845-3852. print.
ISSN: 0019-9567.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 12 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 2001:281056 SCISEARCH
THE GENUINE ARTICLE: 413MT

TITLE: Rhoptry-associated **protein** 1-binding monoclonal antibody raised against a heterologous peptide sequence inhibits **Plasmodium falciparum** growth in vitro
AUTHOR: Moreno R; Poltl-Frank F; Stuber D; Matile H; Mutz M; Weiss N A; Pluschke G (Reprint)
CORPORATE SOURCE: Swiss Trop Inst, Dept Med Parasitol & Infect Biol, CH-4002 Basel, Switzerland (Reprint); Novartis Pharma, CH-4002 Basel, Switzerland; F Hoffmann La Roche & Co Ltd, CH-4070 Basel, Switzerland
COUNTRY OF AUTHOR: Switzerland
SOURCE: INFECTION AND IMMUNITY, (APR 2001) Vol. 69, No. 4, pp. 2558-2568.
Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904 USA.
ISSN: 0019-9567.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 59
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 13 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:448253 BIOSIS
DOCUMENT NUMBER: PREV200100448253
TITLE: Immunogenicity of recombinant fragments of **Plasmodium falciparum** acidic basic repeat antigen produced in Escherichia coli.
AUTHOR(S): Kushwaha, Ashima; Rao, Prakash P. L.; Suresh, R. Padma; Chauhan, V. S. (1)
CORPORATE SOURCE: (1) International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi, 110067: virander@icgeb.res.in India
SOURCE: Parasite Immunology (Oxford), (August, 2001) Vol. 23, No. 8, pp. 435-444. print.
ISSN: 0141-9838.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 14 OF 112 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 2002002897 EMBASE
TITLE: Peptide-based subunit vaccines against pre-erythrocytic **stages** of malaria parasites.
AUTHOR: Tsuji M.; Zavala F.
CORPORATE SOURCE: F. Zavala, Department of Medical Parasitology, New York Univ. School of Medicine, 341 East 25th Street, New York, NY 10010, United States. fg5@nyu.edu
SOURCE: Molecular Immunology, (2001) 38/6 (433-442).
Refs: 80
ISSN: 0161-5890 CODEN: IMCHAZ
PUBLISHER IDENT.: S 0161-5890(01)00079-7
COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; General Review
FILE SEGMENT: 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 15 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 2001:185596 SCISEARCH
THE GENUINE ARTICLE: 402PA
TITLE: Protective CD8(+) **T cell** responses against the preerythrocytic **stages** of malaria

parasites: an overview
AUTHOR: Oliveira-Ferreira J (Reprint); Daniel-Ribeiro C T
CORPORATE SOURCE: FIOCRUZ, Inst Oswaldo Cruz, Lab Pesquisas Malaria, WHO Collaborating Ctr Res & Training Immunol Para, Av Brasil 4365, BR-21045900 Rio De Janeiro, Brazil (Reprint); FIOCRUZ, Inst Oswaldo Cruz, Lab Pesquisas Malaria, WHO Collaborating Ctr Res & Training Immunol Para, BR-21045900 Rio De Janeiro, Brazil
COUNTRY OF AUTHOR: Brazil
SOURCE: MEMORIAS DO INSTITUTO OSWALDO CRUZ, (FEB 2001) Vol. 96, No. 2, pp. 221-227.
Publisher: FUNDACO OSWALDO CRUZ, AV BRASIL 4365, 21045-900 RIO DE JANEIRO, RJ, BRAZIL.
ISSN: 0074-0276.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 56
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 16 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 2001:513993 SCISEARCH
THE GENUINE ARTICLE: 445UA
TITLE: Identification of frequently recognized dimorphic **T-cell epitopes** in **Plasmodium falciparum** merozoite surface **protein**-1 in West and East Africans: Lack of correlation of immune recognition and allelic prevalence
AUTHOR: Lee E A M (Reprint); Flanagan K L; Odhiambo K; Reece W H H; Potter C; Bailey R; Marsh K; Pinder M; Hill A V S; Plebanski M
CORPORATE SOURCE: Univ Oxford, John Radcliffe Hosp, Mol Immunol Grp, Inst Mol Med, Nuffield Dept Med, Oxford OX3 9DU, England (Reprint); Med Res Council Labs, Banjul, Gambia; Univ London London Sch Hyg & Trop Med, London WC1E 7HT, England; Kenya Med Res Inst, Kilifi Res Unit, Kilifi, Kenya
COUNTRY OF AUTHOR: England; Gambia; Kenya
SOURCE: AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE, (MAR-APR 2001) Vol. 64, No. 3-4, pp. 194-203.
Publisher: AMER SOC TROP MED & HYGIENE, 8000 WESTPARK DR, STE 130, MCLEAN, VA 22101 USA.
ISSN: 0002-9637.
DOCUMENT TYPE: Article; Journal
LANGUAGE: English
REFERENCE COUNT: 55
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 17 OF 112 USPATFULL
ACCESSION NUMBER: 2000:141886 USPATFULL
TITLE: Recombinant fowlpox viruses and uses thereof
INVENTOR(S): Cochran, Mark D., 4506 Horizon Dr., Carlsbad, CA, United States 92008
Junker, David E., 6901 Galewood St., San Diego, CA, United States 92120

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6136318		20001024
APPLICATION INFO.:	US 1995-486414		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1994-US2252, filed on 28 Feb 1994 which is a continuation of Ser. No. US 1993-24156, filed on 26 Feb 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Mosher, Mary E.
ASSISTANT EXAMINER: Salimi, Ali R.
LEGAL REPRESENTATIVE: White, John P.Cooper & Dunham LLP
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 3480
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 18 OF 112 USPATFULL
ACCESSION NUMBER: 2000:134749 USPATFULL
TITLE: Recombinant flagellin vaccines
INVENTOR(S): Majarian, William R., Mt. Royal, NJ, United States
Stocker, Bruce A. D., Palo Alto, CA, United States
Newton, Salete M. C., Mountain View, CA, United States
PATENT ASSIGNEE(S): American Cyanamid Company, Madison, NJ, United States (U.S. corporation)
The Board of Trustees of the Leland Stanford Junior University, Stanford, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6130082		20001010
APPLICATION INFO.:	US 1992-837668		19920214 (7)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-190570, filed on 5 May 1988, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 2404
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 19 OF 112 USPATFULL
ACCESSION NUMBER: 2000:102415 USPATFULL
TITLE: Fusion **proteins** comprising ICAM-R polypeptides and immunoglobulin constant regions
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6100383		20000808
APPLICATION INFO.:	US 1995-475680		19950607 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-286754, filed on 5 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned And a continuation-in-part of Ser. No. WO 1993-US787, filed on 26 Jan 1993 which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 6203
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 20 OF 112 USPATFULL
ACCESSION NUMBER: 2000:91543 USPATFULL
TITLE: Peptide composition for prevention and treatment of HIV infection and immune disorders
INVENTOR(S): Wang, Chang Yi, Cold Spring Harbor, NY, United States
PATENT ASSIGNEE(S): United Biomedical Inc., Hauppauge, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6090388		20000718	
APPLICATION INFO.:	US 1998-100409		19980620	(9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Saunders, David
ASSISTANT EXAMINER: Tung, Mary B.
LEGAL REPRESENTATIVE: Morgan & Finnegan LLP
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 3077
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 21 OF 112 USPATFULL
ACCESSION NUMBER: 2000:64849 USPATFULL
TITLE: Polynucleotide vaccine protective against malaria, methods of protection and vector for delivering polynucleotide vaccines
INVENTOR(S): Hoffman, Stephen L., Gaithersburg, MD, United States
Hedstrom, Richard C., Gaithersburg, MD, United States
Sedegah, Martha, Gaithersburg, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Navy, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6066623		20000523	
APPLICATION INFO.:	US 1993-155888		19931123	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Crouch, Deborah
LEGAL REPRESENTATIVE: Spevack, A. D.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1037
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 22 OF 112 USPATFULL
ACCESSION NUMBER: 2000:47206 USPATFULL
TITLE: Heparin and sulfatide binding peptides from the type-I repeats of human thrombospondin and conjugates thereof
INVENTOR(S): Roberts, David D., Bethesda, MD, United States

Krutzsch, Henry C., Bethesda, MD, United States
Guo, Nenghua, Gaithersburg, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6051549		20000418
APPLICATION INFO.:	US 1998-41119		19980311 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-487568, filed on 7 Jun 1995, now patented, Pat. No. US 5770563 which is a continuation-in-part of Ser. No. US 1994-215085, filed on 21 Mar 1994, now abandoned which is a continuation-in-part of Ser. No. US 1991-801812, filed on 6 Dec 1991, now patented, Pat. No. US 5357041
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Colba, Bennett
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 64 Drawing Figure(s); 63 Drawing Page(s)
LINE COUNT: 4435
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 23 OF 112 USPATFULL
ACCESSION NUMBER: 2000:34422 USPATFULL
TITLE: Antibodies to ICAM-related **protein**
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6040176		20000321
APPLICATION INFO.:	US 1996-714017		19960912 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1994-286754, filed on 5 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. WO 1993-US787, filed on 26 Jan 1993 which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 6171
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 24 OF 112 USPATFULL
ACCESSION NUMBER: 2000:15736 USPATFULL
TITLE: GnRH-leukotoxin chimeras
INVENTOR(S): Potter, Andrew A., Saskatoon, Canada

Manns, John G., Saskatoon, Canada
PATENT ASSIGNEE(S): University of Saskatchewan, Saskatoon, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6022960		20000208
APPLICATION INFO.:	US 1998-124491		19980729 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-694865, filed on 9 Aug 1996, now patented, Pat. No. US 5837268 which is a continuation-in-part of Ser. No. US 1995-387156, filed on 10 Feb 1995, now patented, Pat. No. US 5723129 which is a continuation-in-part of Ser. No. US 1992-960932, filed on 14 Oct 1992, now patented, Pat. No. US 5422110 which is a continuation-in-part of Ser. No. US 1991-779171, filed on 16 Oct 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita
LEGAL REPRESENTATIVE: Robins and Associates
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 37 Drawing Page(s)
LINE COUNT: 3513
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 25 OF 112 USPATFULL
ACCESSION NUMBER: 2000:7195 USPATFULL
TITLE: Method for stimulating an immune response utilizing recombinant alphavirus particles
INVENTOR(S): Dubensky, Jr., Thomas W., Rancho Sante Fe, CA, United States
Polo, John M., San Diego, CA, United States
Chang, Steven M.W., San Diego, CA, United States
Jolly, Douglas J., Leucadia, CA, United States
PATENT ASSIGNEE(S): Chiron Corporation, Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6015694		20000118
APPLICATION INFO.:	US 1997-931869		19970916 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-404796, filed on 15 Mar 1995 which is a continuation-in-part of Ser. No. US 1995-376184, filed on 18 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-198450, filed on 18 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: McMasters, David D., Blackburn, Robert P.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 35 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10431
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 26 OF 112 USPATFULL
ACCESSION NUMBER: 2000:7187 USPATFULL
TITLE: Eukaryotic layered vector initiation systems

INVENTOR(S): Dubensky, Jr., Thomas W., Rancho Sante Fe, CA, United States
Polo, John M., San Diego, CA, United States
Jolly, Douglas J., Leucadia, CA, United States
Driver, David A., San Diego, CA, United States
PATENT ASSIGNEE(S): Chiron Viagene, Inc., Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6015686		20000118
APPLICATION INFO.:	US 1995-404796		19950315 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-376184, filed on 20 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-198450, filed on 18 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ketter, James
ASSISTANT EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Seed & Berry, Kruse, Norman J., Blackburn, Robert P.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 37 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10466
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 27 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:389002 BIOSIS
DOCUMENT NUMBER: PREV200000389002
TITLE: High immunogenicity in chimpanzees of peptides and lipopeptides derived from four new **Plasmodium falciparum** pre-erythrocytic molecules.
AUTHOR(S): Benmohamed, Lbachir; Thomas, Alan; Bossus, Marc; Brahimi, Karima; Wubben, Jacqueline; Gras-Masse, Helene; Druilhe, Pierre (1)
CORPORATE SOURCE: (1) Unite de Parasitologie Bio-Medicale, Institut Pasteur, 28 Rue du Dr Roux, 75015, Paris France
SOURCE: Vaccine, (15 June, 2000) Vol. 18, No. 25, pp. 2843-2855. print.
ISSN: 0264-410X.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 28 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:186152 BIOSIS
DOCUMENT NUMBER: PREV200000186152
TITLE: Linkage of exogenous **T-cell epitopes** to the 19-kilodalton region of Plasmodium yoelii merozoite surface **protein** 1 (MSP119) can enhance protective immunity against malaria and modulate the immunoglobulin subclass response to MSP119.
AUTHOR(S): Ahlborg, Niklas; Ling, Irene T.; Holder, Anthony A.; Riley, Eleanor M. (1)
CORPORATE SOURCE: (1) Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, Keppel St., London, WC1E 7HT UK
SOURCE: Infection and Immunity, (April, 2000) Vol. 68, No. 4, pp. 2102-2109.

ISSN: 0019-9567.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 29 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 2000:133084 CABA
DOCUMENT NUMBER: 20000809183
TITLE: Characterization of a differential immunoscreen epitope of **Plasmodium falciparum** using combinatorial agents
AUTHOR: Singh, N. J.; Alfica Sehgal; Shobhona Sharma; Sehgal, A.; Sharma, S.
CORPORATE SOURCE: Department of Biological Sciences, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai 400 005, India.
SOURCE: Parasite Immunology, (2000) Vol. 22, No. 7, pp. 333-340. 20 ref.
ISSN: 0141-9838
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 30 OF 112 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:255782 CAPLUS
DOCUMENT NUMBER: 133:55747
TITLE: Characterization of domains of the phosphoriboprotein P0 of **Plasmodium falciparum**
AUTHOR(S): Chatterjee, S.; Singh, S.; Sohoni, R.; Kattige, V.; Deshpande, C.; Chiplunkar, S.; Kumar, N.; Sharma, S.
CORPORATE SOURCE: Department of Biological Sciences, Tata Institute of Fundamental Research, Mumbai, India
SOURCE: Mol. Biochem. Parasitol. (2000), 107(2), 143-154
CODEN: MBIPDP; ISSN: 0166-6851
PUBLISHER: Elsevier Science Ireland Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 31 OF 112 LIFESCI COPYRIGHT 2002 CSA
ACCESSION NUMBER: 2000:35448 LIFESCI
TITLE: Analysis of immune responses against T- and B-cell **epitopes** from **Plasmodium falciparum** liver-stage antigen 1 in rodent malaria models and malaria-exposed human subjects in India
AUTHOR: Joshi, S.K.; Bharadwaj, A.; Chatterjee, Sh.; Chauhan, V.S.*
CORPORATE SOURCE: International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, P.O. Box 10504, New Delhi 110067, India; E-mail: virander@icgeb.res.in
SOURCE: Infection and Immunity [Infect. Immun.], (20000100) vol. 68, no. 1, pp. 141-150.
ISSN: 0019-9567.
DOCUMENT TYPE: Journal
FILE SEGMENT: K; F
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 32 OF 112 USPATFULL
ACCESSION NUMBER: 1999:163226 USPATFULL
TITLE: Recombinant fowlpox viruses and uses thereof
INVENTOR(S): Cochran, Mark D., Carlsbad, CA, United States
Junker, David E., San Diego, CA, United States
PATENT ASSIGNEE(S): Syntro Corporation, Lenexa, KS, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6001369		19991214
APPLICATION INFO.:	US 1995-477459		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1994-US2252, filed on 28 Feb 1994 which is a continuation of Ser. No. US 1993-24156, filed on 26 Feb 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: White, John P.Cooper & Dunham LLP
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 3668
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 33 OF 112 USPATFULL
ACCESSION NUMBER: 1999:150946 USPATFULL
TITLE: Methods for identifying modulators of **protein** kinase C phosphorylation of ICAM-related **protein**
INVENTOR(S): Gallatin, W. Michael, Mercer Island, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothwell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5989843		19991123
APPLICATION INFO.:	US 1996-720420		19960927 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-487113, filed on 7 Jun 1995, now patented, Pat. No. US 5837822 which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned And Ser. No. WO 1993-US787, filed on 26 Jan 1993 which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992 which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 7311
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 34 OF 112 USPATFULL
ACCESSION NUMBER: 1999:141305 USPATFULL
TITLE: Adjuvant for transcutaneous immunization
INVENTOR(S): Glenn, Gregory M., Bethesda, MD, United States
Alving, Carl R., Bethesda, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the U.S. Army Medical Research & Material Command, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE

PATENT INFORMATION:	US 5980898	19991109	
APPLICATION INFO.:	US 1997-896085	19970717	(8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-749164, filed on 14 Nov 1996		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Saunders, David		
ASSISTANT EXAMINER:	Tung, Mary Beth		
LEGAL REPRESENTATIVE:	Pillsbury, Madison & Sutro LLP		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1,11		
NUMBER OF DRAWINGS:	1 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1988		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 35 OF 112 USPATFULL

ACCESSION NUMBER:	1999:132243 USPATFULL		
TITLE:	**Plasmodium falciparum** MHC class I-restricted CTL **epitopes** derived from pre-erythrocytic stage antigens		
INVENTOR(S):	Hill, Adrian Vivian Sinton, Oxford, United Kingdom Gotch, Frances Margaret, Oxford, United Kingdom Elvin, John, Oxford, United Kingdom McMichael, Andrew James, Horton-cum-Studley, United Kingdom Whittle, Hilton Carter, The Gambia, United Kingdom		
PATENT ASSIGNEE(S):	Isis Innovation Limited, Oxford, United Kingdom (non-U.S. corporation)		

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5972351		19991026	
	WO 9320103		19931014	
APPLICATION INFO.:	US 1994-318856		19941205	(8)
	WO 1992-GB9300711		19920405	
			19941205	PCT 371 date
			19941205	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1992-8068	19920403
	GB 1992-17704	19920820

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Scheiner, Laurie
ASSISTANT EXAMINER:	Parkin, Jeffrey S.
LEGAL REPRESENTATIVE:	Wenderoth, Lind & Ponack, L.L.P.
NUMBER OF CLAIMS:	2
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT:	1387

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 36 OF 112 USPATFULL

ACCESSION NUMBER:	1999:92294 USPATFULL
TITLE:	Interleukin-4 stimulated T lymphocyte cell death for the treatment of allergic disorders
INVENTOR(S):	Lenardo, Michael J., Potomac, MD, United States Boehme, Stefen A., McClean, VA, United States Critchfield, Jeffrey, Bethesda, MD, United States
PATENT ASSIGNEE(S):	The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5935575		19990810
APPLICATION INFO.:	US 1994-348286		19941130 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-926290, filed on 10 Aug 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Krsek-Staples, Julie
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 4
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 1567
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 37 OF 112 USPATFULL
ACCESSION NUMBER: 1999:88804 USPATFULL
TITLE: Vaccine comprising eimeria spp. gametocyte antigen
INVENTOR(S): Wallach, Michael, Jerusalem, Israel
Pugatsch, Thea, Maaleh Adumin, Israel
Mencher, David, Jerusalem, Israel
PATENT ASSIGNEE(S): Chilwalner, Tel-Aviv, Israel (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5932225		19990803
APPLICATION INFO.:	US 1995-552233		19951102 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-108763, filed on 17 Aug 1993, now patented, Pat. No. US 5496550 which is a continuation of Ser. No. US 1991-642219, filed on 16 Jan 1991, now abandoned which is a continuation-in-part of Ser. No. US 1989-310603, filed on 14 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-155245, filed on 12 Feb 1988, now abandoned which is a continuation-in-part of Ser. No. US 1986-896611, filed on 14 Aug 1986, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	CA 1987-544427	19870813

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Caputa, Anthony C.
ASSISTANT EXAMINER: Navarro, Mark
LEGAL REPRESENTATIVE: White, John P.Cooper & Dunham LLP
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 19 Drawing Page(s)
LINE COUNT: 2080

L13 ANSWER 38 OF 112 USPATFULL
ACCESSION NUMBER: 1999:88797 USPATFULL
TITLE: Multideterminant peptides eliciting helper T-lymphocyte, cytotoxic T-lymphocyte, and neutralizing antibody responses against HIV-1
INVENTOR(S): Berzofsky, Jay A., Bethesda, MD, United States
Ahlers, Jeffrey D., Kensington, MD, United States
Pendelton, C. David, Bethesda, MD, United States
Nara, Peter, Frederick, MD, United States
Shirai, Mutsunori, Kagawa, Japan
PATENT ASSIGNEE(S): The United States of America as represented by the

Department of Health & Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5932218		19990803
APPLICATION INFO.:	US 1995-455625		19950531 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-60988, filed on 14 May 1993 which is a continuation-in-part of Ser. No. US 1992-847311, filed on 6 Mar 1992 which is a continuation-in-part of Ser. No. US 1988-148692, filed on 26 Jan 1988, now abandoned , said Ser. No. US 60988 which is a continuation-in-part of Ser. No. US 1991-751998, filed on 29 Aug 1991, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Adams, Donald E.
ASSISTANT EXAMINER: Parkin, Jeffrey S.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 49 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 2307
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 39 OF 112 USPATFULL
ACCESSION NUMBER: 1999:85253 USPATFULL
TITLE: Hybrid **protein** between CS from plasmodium and HBsAg
INVENTOR(S): De Wilde, Michel, Glabais, Belgium
Cohen, Joseph, Brussels, Belgium
PATENT ASSIGNEE(S): SmithKline Beecham Biologicals (s.a.), Rixensart, Belgium (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5928902		19990727
APPLICATION INFO.:	US 1996-760797		19961204 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-442612, filed on 17 May 1995, now abandoned which is a continuation of Ser. No. US 244085

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita
LEGAL REPRESENTATIVE: Baumeister, Kirk, Kinzig, Charles M.
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 1346
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 40 OF 112 USPATFULL
ACCESSION NUMBER: 1999:81550 USPATFULL
TITLE: Recombinant fowlpox viruses and uses thereof
INVENTOR(S): Cochran, Mark D., Carlsbad, CA, United States
Junker, David E., San Diego, CA, United States
PATENT ASSIGNEE(S): Syntro Corporation, Lenexa, KS, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5925358		19990720
APPLICATION INFO.:	US 1995-484575		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1994-US2252, filed on 28 Feb 1994 which is a continuation of Ser. No. US

1993-24156, filed on 26 Feb 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: White, John P.Cooper & Dunham LLP
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 11 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 3589
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 41 OF 112 USPATFULL
ACCESSION NUMBER: 1999:78309 USPATFULL
TITLE: Detection and therapy of lesions with biotin/avidin-metal chelating **protein** conjugates
INVENTOR(S): Goldenberg, David Milton, Short Hills, NJ, United States
Griffiths, Gary L., Morristown, NJ, United States
Hansen, Hans J., Mystic Island, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5922302		19990713
APPLICATION INFO.:	US 1995-440652		19950515 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-409960, filed on 23 Mar 1995, now patented, Pat. No. US 5736119 which is a continuation of Ser. No. US 1993-62662, filed on 17 May 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Achutamurthy, Ponnathapura
ASSISTANT EXAMINER: Ponnaluri, P.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 36
EXEMPLARY CLAIM: 1
LINE COUNT: 1210
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 42 OF 112 USPATFULL
ACCESSION NUMBER: 1999:30947 USPATFULL
TITLE: Modulators of the interaction between ICAM-R and .alpha..sub.d /CD18
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5880268		19990309
APPLICATION INFO.:	US 1995-483932		19950607 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-286754, filed on 5 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed

on 27 Jan 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 5823
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 43 OF 112 USPATFULL
ACCESSION NUMBER: 1999:18933 USPATFULL
TITLE: Method for monitoring an inflammatory disease state by detecting circulating ICAM-R
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5869262		19990209
APPLICATION INFO.:	US 1995-473503		19950607 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-286754, filed on 5 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hutzell, Paula K.
ASSISTANT EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 31 Drawing Page(s)
LINE COUNT: 5859
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 44 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 1999:468161 SCISEARCH
THE GENUINE ARTICLE: 205NV
TITLE: Broadly distributed **T cell** reactivity, with no immunodominant loci, to the pre-erythrocytic antigen thrombospondin-related adhesive **protein** of **Plasmodium falciparum** in West Africans
AUTHOR: Flanagan K L; Plebanski M (Reprint); Akinwunmi P; Lee E A M; Reece W H H; Robson K J H; Hill A V S; Pinder M
CORPORATE SOURCE: JOHN RADCLIFFE HOSP, INST MOL MED, MOL IMMUNOL GRP, NUFFIELD DEPT MED, OXFORD OX3 9DU, ENGLAND (Reprint); JOHN RADCLIFFE HOSP, INST MOL MED, MOL IMMUNOL GRP, NUFFIELD DEPT MED, OXFORD OX3 9DU, ENGLAND; MRC LABS, FAJARA, GAMBIA; JOHN RADCLIFFE HOSP, INST MOL MED, MRC MOL HAEMATOL UNIT, NUFFIELD DEPT MED, OXFORD OX3 9DU, ENGLAND
COUNTRY OF AUTHOR: ENGLAND; GAMBIA
SOURCE: EUROPEAN JOURNAL OF IMMUNOLOGY, (JUN 1999) Vol. 29, No. 6,

pp. 1943-1954.
Publisher: WILEY-V C H VERLAG GMBH, MUHLENSTRASSE 33-34, D-13187 BERLIN, GERMANY.
ISSN: 0014-2980.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 65
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 45 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1999:146248 BIOSIS
DOCUMENT NUMBER: PREV199900146248
TITLE: Immunogenicity and in vitro protective efficacy of a recombinant multistage **Plasmodium falciparum** candidate vaccine.
AUTHOR(S): Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Div. Parasitic Diseases, Mol. Vaccine Sect., Cent. Dis. Control Prevention, Mail Stop F-12, 4770 Buford Highway, Chambee, GA 30341-3717 USA
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (Feb. 16, 1999) Vol. 96, No. 4, pp. 1615-1620.
ISSN: 0027-8424.
DOCUMENT TYPE: Article
LANGUAGE: English

L13 ANSWER 46 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 2000:40955 CABA
DOCUMENT NUMBER: 20000805312
TITLE: Pre-erythrocytic malaria vaccine: mechanisms of protective immunity and human vaccine trials
AUTHOR: Nardin, E.; Zavala, F.; Nussenzweig, V.; Nussenzweig, R. S.; Coluzzi, M. [EDITOR]; Bradley, D. [EDITOR]
CORPORATE SOURCE: Department of Medical and Molecular Parasitology, New York University School of Medicine, New York, NY 10010, USA.
SOURCE: Parassitologia (Roma), (1999) Vol. 41, No. 1/3, pp. 397-402. 39 ref.
Meeting Info.: The malaria challenge after one hundred years of malariology. Papers from the Malariology Centenary Conference, Accademia Nazionale dei Lincei, Roma, 16-19 November 1998.
ISSN: 0048-2951
DOCUMENT TYPE: Conference Article; Journal
LANGUAGE: English

L13 ANSWER 47 OF 112 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:364020 CAPLUS
DOCUMENT NUMBER: 136:84328
TITLE: Natural selection on apical membrane antigen-1 of **Plasmodium falciparum**
AUTHOR(S): Verra, F.; Hughes, A. L.
CORPORATE SOURCE: Department of Biology and Institute of Molecular Evolutionary Genetics, Pennsylvania State University, University Park, PA, 16801-5301, USA
SOURCE: Parassitologia (Roma, Italy) (1999), 41(1-3), 93-95
CODEN: PSSGAR; ISSN: 0048-2951
PUBLISHER: Lambardo Editore
DOCUMENT TYPE: Journal

LANGUAGE: English
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 48 OF 112 USPATFULL
ACCESSION NUMBER: 1998:150739 USPATFULL
TITLE: Alphavirus vector constructs
INVENTOR(S): Dubensky, Jr., Thomas W., Rancho Sante Fe, CA, United States
Polo, John M., San Diego, CA, United States
Ibanez, Carlos E., San Diego, CA, United States
Chang, Stephen M. W., San Diego, CA, United States
Jolly, Douglas J., Leucadia, CA, United States
Driver, David A., San Diego, CA, United States
Belli, Barbara A., San Diego, CA, United States
PATENT ASSIGNEE(S): Chiron Corporation, Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5843723		19981201
APPLICATION INFO.:	US 1996-739167		19961030 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-404796, filed on 20 Mar 1995 which is a continuation-in-part of Ser. No. US 1995-376184, filed on 20 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-198450, filed on 18 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ketter, James
ASSISTANT EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: McMasters, David D., Kruse, Norman J., Blackburn, Robert P.
NUMBER OF CLAIMS: 47
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 37 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10318
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 49 OF 112 USPATFULL
ACCESSION NUMBER: 1998:143676 USPATFULL
TITLE: GnRH-leukotoxin chimeras
INVENTOR(S): Potter, Andrew A., Saskatoon, Canada
Manns, John G., Saskatoon, Canada
PATENT ASSIGNEE(S): University of Saskatchewan, Saskatoon, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5837268		19981117
APPLICATION INFO.:	US 1996-694865		19960809 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-387156, filed on 10 Feb 1995, now patented, Pat. No. US 5723129 which is a continuation-in-part of Ser. No. US 1992-960932, filed on 14 Oct 1992, now patented, Pat. No. US 5422110 which is a continuation-in-part of Ser. No. US 1991-779171, filed on 16 Oct 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Minnifield, Nita

LEGAL REPRESENTATIVE: Robins & Associates
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Figure(s); 37 Drawing Page(s)
LINE COUNT: 2885
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 50 OF 112 USPATFULL
ACCESSION NUMBER: 1998:119133 USPATFULL
TITLE: Protective 17 KDA malaria hepatic and erythrocytic stage immunogen and gene
INVENTOR(S): Hoffman, Stephen L., Gaithersburg, MD, United States
Charoenvit, Yupin, Silver Spring, MD, United States
Hedstrom, Richard C., Gaithersburg, MD, United States
Doolan, Denise L., Rockville, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Navy, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5814617		19980929
APPLICATION INFO.:	US 1994-319704		19941007 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Cunningham, Thomas M.
LEGAL REPRESENTATIVE: Spevack, A. David
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 17 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 51 OF 112 USPATFULL
ACCESSION NUMBER: 1998:119004 USPATFULL
TITLE: Eukaryotic layered vector initiation systems
INVENTOR(S): Dubensky, Jr., Thomas W., P.O. Box 675205, Rancho Sante Fe, CA, United States 92067
Polo, John M., 1222 Reed Ave., Number 4, San Diego, CA, United States 92109
Jolly, Douglas J., 277 Hillcrest Dr., Leucadia, CA, United States 92024
Driver, David A., 5142 Biltmore St., San Diego, CA, United States 92117

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5814482		19980929
APPLICATION INFO.:	US 1996-739158		19961030 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-404796, filed on 15 Mar 1995 which is a continuation-in-part of Ser. No. US 1995-376184, filed on 18 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-198450, filed on 18 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ketter, James
ASSISTANT EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Seed & Berry, Kruse, Norman J., Blackburn, Robert P.
NUMBER OF CLAIMS: 25

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 37 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10431
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 52 OF 112 USPATFULL
ACCESSION NUMBER: 1998:115830 USPATFULL
TITLE: ICAM-related **protein** variants
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5811517		19980922
APPLICATION INFO.:	US 1995-483389		19950607 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-286754, filed on 5 Aug 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 2 Dec 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Walsh, Stephen
ASSISTANT EXAMINER: Brown, Karen E.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 5991
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 53 OF 112 USPATFULL
ACCESSION NUMBER: 1998:101402 USPATFULL
TITLE: **Protein**
INVENTOR(S): Schoenmakers, Johannes Gerardus Ghislain, WK Mook, Netherlands
Konings, Rudolph Nicholaas Hendrik, GZ Guijk, Netherlands
Moelans, Inge Irma Maria Dominique, SH Nijmegen, Netherlands
PATENT ASSIGNEE(S): University of Nijmegan, Netherlands (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5798106		19980825
APPLICATION INFO.:	US 1995-450595		19950525 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-949645, filed on 4 Dec 1992, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-12580	19900606

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hutzel, Paula K.

ASSISTANT EXAMINER: Masood, Khalid
LEGAL REPRESENTATIVE: Baumeister, Kirk, Kinzig, Charles M., Lentz, Edward T.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 782
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 54 OF 112 USPATFULL
ACCESSION NUMBER: 1998:101401 USPATFULL
TITLE: DNA encoding a plasmodium 16kD **protein**
INVENTOR(S): Schoenmakers, Johannes Geradus Ghislain, Mook, Netherlands
Konings, Rudolph Nicolaas Hendrik, Guijk, Netherlands
Moelans, Inge Irma Maria Dominique, Nijmegen, Netherlands
PATENT ASSIGNEE(S): University of Nijmegan, Netherlands (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5798105		19980825
APPLICATION INFO.:	US 1995-450065		19950525 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-949645, filed on 4 Dec 1992, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1990-12580	19900606

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Ryan, Verlene
LEGAL REPRESENTATIVE: Baumeister, Kirk, Kinzig, Charles M., Lentz, Edward T.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 771
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 55 OF 112 USPATFULL
ACCESSION NUMBER: 1998:91872 USPATFULL
TITLE: Alphavirus structural **protein** expression cassettes
INVENTOR(S): Dubensky, Jr., Thomas W., Rancho Sante Fe, CA, United States
Polo, John M., San Diego, CA, United States
Ibanez, Carlos E., San Diego, CA, United States
Chang, Stephen M. W., San Diego, CA, United States
Jolly, Douglas J., Leucadia, CA, United States
Driver, David A., San Diego, CA, United States
PATENT ASSIGNEE(S): Chiron Corporation, Emeryville, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5789245		19980804
APPLICATION INFO.:	US 1996-741881		19961030 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-404796, filed on 15 Mar 1995 which is a continuation-in-part of Ser. No. US 1995-376184, filed on 20 Jan 1995, now abandoned which is a continuation-in-part of Ser. No. US 1994-348472, filed on 30 Nov 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-198450, filed

on 18 Feb 1994, now abandoned which is a continuation-in-part of Ser. No. US 1993-122791, filed on 15 Sep 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ketter, James
ASSISTANT EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: McMasters, David D., Kruse, Norman J., Blackburn, Robert P.
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 35 Drawing Figure(s); 30 Drawing Page(s)
LINE COUNT: 10270
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 56 OF 112 USPATFULL
ACCESSION NUMBER: 1998:75369 USPATFULL
TITLE: Method to identify compounds which modulate ICAM-related **protein** interactions
INVENTOR(S): Gallatin, W. Michael, Seattle, WA, United States
Vazeux, Rosemay, Seattle, WA, United States
PATENT ASSIGNEE(S): ICOS Corporation, Bothell, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5773218		19980630
APPLICATION INFO.:	US 1995-482882		19950607 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-286754, filed on 5 Aug 1994 which is a continuation-in-part of Ser. No. US 1993-102852, filed on 5 Aug 1993, now abandoned which is a continuation-in-part of Ser. No. US 1993-9266, filed on 22 Jan 1993, now abandoned And Ser. No. US 1992-894061, filed on 5 Jun 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-889724, filed on 26 May 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-827689, filed on 27 Jan 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Allen, Marianne P.
ASSISTANT EXAMINER: Brown, Karen E.
LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Borun
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 34 Drawing Page(s)
LINE COUNT: 5498
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 57 OF 112 USPATFULL
ACCESSION NUMBER: 1998:72589 USPATFULL
TITLE: Heparin- and sulfatide binding peptides from the type I repeats of human thrombospondin and conjugates thereof
INVENTOR(S): Roberts, David D., Bethesda, MD, United States
Browning, Philip J., Brentwood, TN, United States
Bryant, Joseph L., Bethesda, MD, United States
Inman, John K., Bethesda, MD, United States
Krutzsch, Henry C., Bethesda, MD, United States
Guo, Nenghua, Gaithersburg, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5770563		19980623
APPLICATION INFO.:	US 1995-487568		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-215085, filed on 21 Mar 1994, now abandoned which is a continuation-in-part of Ser. No. US 1991-801812, filed on 6 Dec 1991, now patented, Pat. No. US 5357041

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Tsang, Cecilia J.
ASSISTANT EXAMINER: Harle, Jennifer
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew, LLP
NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 64 Drawing Figure(s); 63 Drawing Page(s)
LINE COUNT: 3518
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 58 OF 112 USPATFULL
ACCESSION NUMBER: 1998:68528 USPATFULL
TITLE: Malaria recombinant poxviruses
INVENTOR(S): Paoletti, Enzo, Delmar, NY, United States
de Taisne, Charles, Lyons, France
Tine, John A., Scotia, NY, United States
PATENT ASSIGNEE(S): Virogenetics Corporation, Troy, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5766597		19980616
APPLICATION INFO.:	US 1994-257073		19940609 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-105483, filed on 12 Aug 1993, now patented, Pat. No. US 5494807 Ser. No. Ser. No. US 1994-178476, filed on 7 Jan 1994 Ser. No. Ser. No. US 1993-36217, filed on 24 Mar 1993, now patented, Pat. No. US 5364773 Ser. No. Ser. No. US 1993-102702, filed on 5 Aug 1993, now patented, Pat. No. US 5453364 And Ser. No. US 1993-75783, filed on 11 Jun 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-847951, filed on 6 Mar 1992, now abandoned Ser. No. Ser. No. US 1991-724109, filed on 1 Jul 1991, now abandoned Ser. No. Ser. No. US 1992-847977, filed on 3 Mar 1992, now abandoned And Ser. No. US 1992-852305, filed on 18 Mar 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-672183, filed on 20 Mar 1991, now abandoned , said Ser. No. US -105483 which is a continuation of Ser. No. US -847951 , said Ser. No. US -178476 which is a continuation of Ser. No. US -724109 , said Ser. No. US -36217 which is a continuation of Ser. No. US 1991-666056, filed on 7 Mar 1991, now abandoned , said Ser. No. US -102702 which is a continuation of Ser. No. US -847977

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Frommer Lawrence & Haug LLP, Frommer, William S., Kowalski, Thomas J.
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 41 Drawing Page(s)
LINE COUNT: 4740
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 59 OF 112 USPATFULL
ACCESSION NUMBER: 1998:36340 USPATFULL
TITLE: Detection and therapy of lesions with biotin/avidin-metal chelating **protein** conjugates
INVENTOR(S): Goldenberg, David Milton, Short Hills, NJ, United States
Griffiths, Gary L., Morristown, NJ, United States
Hansen, Hans J., Mystic Island, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5736119		19980407
APPLICATION INFO.:	US 1995-409960		19950323 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-62662, filed on 17 May 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Eisenschenk, Frank C.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 27
EXEMPLARY CLAIM: 1
LINE COUNT: 1138
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 60 OF 112 USPATFULL
ACCESSION NUMBER: 1998:33796 USPATFULL
TITLE: Cloning and expression of **Plasmodium falciparum** transmission blocking target antigen, Pfs230
INVENTOR(S): Williamson, Kim C., Rockville, MD, United States
Kaslow, David C., Kensington, MD, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Department of Health and Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5733772		19980331
APPLICATION INFO.:	US 1994-323170		19941013 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-10409, filed on 29 Jan 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1323
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 61 OF 112 USPATFULL
ACCESSION NUMBER: 1998:25220 USPATFULL
TITLE: Malaria treatments
INVENTOR(S): Playfair, John Hugh Lyon, London, United Kingdom
Taverne, Janice, London, United Kingdom
Bate, Clive Alan Winston, Oxford, United Kingdom
PATENT ASSIGNEE(S): British Technology Group Limited, London, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE

PATENT INFORMATION:	US 5726166	19980310	
	WO 9315761	19930819	
APPLICATION INFO.:	US 1994-290706	19941205	(8)
	WO 1993-GB84	19930115	
		19941205	PCT 371 date
		19941205	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1992-3039	19920213

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Travers, Russell
LEGAL REPRESENTATIVE: Nixon & Vanderhye P.C.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 19 Drawing Figure(s); 12 Drawing Page(s)
LINE COUNT: 1848
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 62 OF 112 USPATFULL
ACCESSION NUMBER: 1998:14497 USPATFULL
TITLE: Solid fat nanoemulsions as vaccine delivery vehicles
INVENTOR(S): Anselem, Shimon, Rehovot, Israel
Lowell, George H., Baltimore, MD, United States
Aviv, Haim, Rehovot, Israel
Friedman, Doron, Carmei Yosef, Israel
PATENT ASSIGNEE(S): Pharmos Corporation, New York, NY, United States (U.S. corporation)
The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5716637		19980210	
	WO 9426255		19941124	
APPLICATION INFO.:	US 1995-553350		19951116	(8)
	WO 1994-US5589		19940518	
			19951116	PCT 371 date
			19951116	PCT 102(e) date

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-63613, filed on 18 May 1993, now patented, Pat. No. US 5576016
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Kishore, Gollamudi S.
LEGAL REPRESENTATIVE: Pennie & Edmonds
NUMBER OF CLAIMS: 44
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 1699
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 63 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1998:395916 BIOSIS
DOCUMENT NUMBER: PREV199800395916
TITLE: Mapping of specific and promiscuous HLA-DR-restricted **T-cell epitopes** on the **Plasmodium falciparum** 27-kilodalton sexual stage-specific antigen.
AUTHOR(S): Contreras, Carmen E.; Ploton, Isabelle N.; Siliciano, Robert F.; Karp, Christopher L.; Viscidi, Raphael; Kumar, Nirbhay (1)

CORPORATE SOURCE: (1) Dep. Mol. Microbiol. Immunol., Johns Hopkins Univ. Sch. Hygiene Publ. Health, 615 N. Wolfe St., Baltimore, MD 21205 USA
SOURCE: Infection and Immunity, (Aug., 1998) Vol. 66, No. 8, pp. 3579-3590.
ISSN: 0019-9567.
DOCUMENT TYPE: Article
LANGUAGE: English

L13 ANSWER 64 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1998:217420 BIOSIS
DOCUMENT NUMBER: PREV199800217420
TITLE: **Plasmodium falciparum** polyoximes: Highly immunogenic synthetic vaccines constructed by chemoselective ligation of repeat B-cell **epitopes** and a universal **T-cell** epitope of CS **protein**.
AUTHOR(S): Nardin, E. H. (1); Calvo-Calle, J. M.; Oliveira, G. A.; Clavijo, P.; Nussenzweig, R.; Simon, R.; Zeng, W.; Rose, K.
CORPORATE SOURCE: (1) Dep. Med. Molecular Parasitology, New York Univ. Sch. Med., 341 E. 25th St., New York, NY 10010 USA
SOURCE: Vaccine, (April, 1998) Vol. 16, No. 6, pp. 590-600.
ISSN: 0264-410X.
DOCUMENT TYPE: Article
LANGUAGE: English

L13 ANSWER 65 OF 112 USPATFULL
ACCESSION NUMBER: 97:117899 USPATFULL
TITLE: Method of reducing immunogenicity
INVENTOR(S): Goldenberg, David M., Short Hills, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5698405		19971216
APPLICATION INFO.:	US 1995-456393		19950601 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1992-933982, filed on 21 Aug 1992, now patented, Pat. No. US 5525338, issued on 11 Jun 1996 which is a continuation-in-part of Ser. No. US 1988-167077, filed on 11 Mar 1988, now patented, Pat. No. US 5101827, issued on 7 Apr 1992 which is a continuation of Ser. No. US 1985-751877, filed on 5 Jul 1985, now patented, Pat. No. US 4735210, issued on 5 Apr 1988
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Spiegel, Carol A.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 1093
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 66 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 97:679233 SCISEARCH
THE GENUINE ARTICLE: XU735
TITLE: **T cell** immunity in malaria
AUTHOR: Kabilan L (Reprint)
CORPORATE SOURCE: MALARIA RES CTR, DELHI, INDIA (Reprint)
COUNTRY OF AUTHOR: INDIA
SOURCE: INDIAN JOURNAL OF MEDICAL RESEARCH, (AUG 1997) Vol. 106, pp. 130-148.
Publisher: INDIAN COUNCIL MEDICAL RES, PO BOX 4508 ANSARI

NAGAR, NEW DELHI 110029, INDIA.
ISSN: 0971-5916.
DOCUMENT TYPE: General Review; Journal
FILE SEGMENT: LIFE
LANGUAGE: English
REFERENCE COUNT: 96
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 67 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1998:257713 BIOSIS
DOCUMENT NUMBER: PREV199800257713
TITLE: Immune evasion in malaria: Altered peptide ligands of the circumsporozoite **protein**.
AUTHOR(S): Plebanski, M.; Lee, E. A. M.; Hill, A. V. S.
CORPORATE SOURCE: Nuffield Dep. Med., Inst. Molecular Med., Univ. Oxford, John Radcliff Hosp., Oxford OX3 UK
SOURCE: Parasitology, (1997) Vol. 115, No. SUPPL., pp. S55-S66.
ISSN: 0031-1820.
DOCUMENT TYPE: General Review
LANGUAGE: English

L13 ANSWER 68 OF 112 MEDLINE
ACCESSION NUMBER: 1998013242 MEDLINE
DOCUMENT NUMBER: 98013242 PubMed ID: 9352001
TITLE: T- and B-cell responses of malaria immune individuals to synthetic peptides corresponding to non-repeat sequences in the N-terminal region of the **Plasmodium falciparum** antigen Pf155/RESA.
AUTHOR: Kulane A; Siddique A B; Perlmann H; Ahlborg N; Roussilhon C; Tall A; Dieye A; Perlmann P; Troye-Blomberg M
CORPORATE SOURCE: Department of Immunology, Stockholm University, Sweden.. asli@imm2.su.se
SOURCE: ACTA TROPICA, (1997 Oct 14) 68 (1) 37-51.
Journal code: 23A; 0370374. ISSN: 0001-706X.
PUB. COUNTRY: Netherlands
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199712
ENTRY DATE: Entered STN: 19980109
Last Updated on STN: 19980109
Entered Medline: 19971204

L13 ANSWER 69 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1997:254752 BIOSIS
DOCUMENT NUMBER: PREV199799553955
TITLE: Immunogenicity of synthetic peptides containing multiple **epitopes** from malaria antigens.
AUTHOR(S): Bharadwaj, A.; Sharma, P.; Sailaja, V. N.; Joshi, S.; Chauhan, V. S.
CORPORATE SOURCE: Int. Centre Genetic Eng. and Biotechnol., Aruna Asaf Ali Marg, New Delhi 110 067 India
SOURCE: Annals of Tropical Medicine and Parasitology, (1997) Vol. 91, No. SUPPL. 1, pp. S19-S20.
ISSN: 0003-4983.
DOCUMENT TYPE: Journal; Article
LANGUAGE: English

L13 ANSWER 70 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 97:145458 CABA
DOCUMENT NUMBER: 970805655
TITLE: Immunogenicity of synthetic peptides containing multiple **epitopes** from malaria antigens
AUTHOR: Bharadwaj, A.; Sharma, P.; Sailaja, V. N.; Joshi,

S.; Chauhan, V. S.; Jepsen, S. [EDITOR]
CORPORATE SOURCE: International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Marg, New Delhi 110 067, India.
SOURCE: Annals of Tropical Medicine and Parasitology, (1997) Vol. 91, No. supplement 1, pp. S19-S20.
Meeting Info.: Fifth CEC malaria contract holders' meeting, Copenhagen, Denmark, 29-31 May 1995.
ISSN: 0003-4983
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 71 OF 112 USPATFULL
ACCESSION NUMBER: 96:108824 USPATFULL
TITLE: Cloning and expression of toxoplasma antigens and use of recombinant antigens
INVENTOR(S): McDonald, Peter J., Belair, Australia
Johnson, Alan M., East Roseville, Australia
PATENT ASSIGNEE(S): The Flinders University of South Australia, South Australia, Australia (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5578453		19961126	
	WO 9202624		19920220	
APPLICATION INFO.:	US 1993-972481		19930412	(7)
	WO 1991-AU347		19910809	
			19930412	PCT 371 date
			19930412	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	AU 1990-1679	19900810

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Scheiner, Toni R.
LEGAL REPRESENTATIVE: Birch, Stewart, Kolasch & Birch, LLP
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 6
NUMBER OF DRAWINGS: 43 Drawing Figure(s); 15 Drawing Page(s)
LINE COUNT: 1266
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 72 OF 112 USPATFULL
ACCESSION NUMBER: 96:103881 USPATFULL
TITLE: Immunogenic constructs comprising b-cell and **t -cell epitopes** on common carrier
INVENTOR(S): Cheronis, John C., Lakewood, CO, United States
Coeshott, Claire, Denver, CO, United States
PATENT ASSIGNEE(S): Coretech, Inc., Denver, CO, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5573916		19961112	
APPLICATION INFO.:	US 1994-246278		19940519	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Smith, Lynette F.
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 736

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 73 OF 112 USPATFULL
ACCESSION NUMBER: 96:82450 USPATFULL
TITLE: Methods and vaccines comprising surface-active copolymers
INVENTOR(S): Hunter, Robert L., Tucker, GA, United States
PATENT ASSIGNEE(S): Emory University, Atlanta, GA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5554372		19960910
APPLICATION INFO.:	US 1995-420333		19950411 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-133760, filed on 7 Oct 1993, now abandoned which is a continuation of Ser. No. US 1991-716807, filed on 21 Jun 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-544831, filed on 27 Jun 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-449086, filed on 8 Dec 1989, now abandoned which is a continuation of Ser. No. US 1989-341315, filed on 21 Apr 1989, now abandoned which is a continuation of Ser. No. US 1988-208335, filed on 17 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-75187, filed on 16 Jul 1987, now abandoned which is a continuation-in-part of Ser. No. US 1986-909964, filed on 22 Sep 1986, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Shaver, Jennifer
LEGAL REPRESENTATIVE: Jones & Askew
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 24 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 2669
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 74 OF 112 USPATFULL
ACCESSION NUMBER: 96:70365 USPATFULL
TITLE: Plasmodium merozoite rhoptries antigenic polypeptides
INVENTOR(S): Ridley, Robert G., Edinburgh, Great Britain
Scaife, John G., Edinburgh, Great Britain
PATENT ASSIGNEE(S): Hoffman-La Roche Inc., Nutley, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5543323		19960806
APPLICATION INFO.:	US 1994-340514		19941116 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-86416, filed on 1 Jul 1993, now abandoned which is a continuation of Ser. No. US 1992-992988, filed on 18 Dec 1992, now abandoned which is a continuation of Ser. No. US 1990-489312, filed on 5 Mar 1990, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1989-5857	19890314
	GB 1989-19064	19890822

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Mosher, Mary E.

LEGAL REPRESENTATIVE: Gould, George M., Epstein, William H., Picut, Catherine A.
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1344
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 75 OF 112 USPATFULL
ACCESSION NUMBER: 96:50642 USPATFULL
TITLE: Detection and therapy of lesions with biotin/avidin conjugates
INVENTOR(S): Goldenberg, David M., Short Hills, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5525338		19960611
APPLICATION INFO.:	US 1992-933982		19920821 (7)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Kim, Kay K. A.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 48
EXEMPLARY CLAIM: 1
LINE COUNT: 1456
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 76 OF 112 USPATFULL
ACCESSION NUMBER: 96:25055 USPATFULL
TITLE: Monoclonal antibodies to a continuous and cross-reactive epitope and an isolated **protein** of a sexual stage of P. falciparum
INVENTOR(S): Kumar, Nirbhay, Bethesda, MD, United States
PATENT ASSIGNEE(S): The Johns Hopkins University, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5502168		19960326
APPLICATION INFO.:	US 1993-120225		19930914 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-779494, filed on 24 Oct 1991, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Adams, Donald E.
LEGAL REPRESENTATIVE: Cushman, Darby & Cushman
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 862
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 77 OF 112 USPATFULL
ACCESSION NUMBER: 96:18825 USPATFULL
TITLE: Method of reducing the output of Eimeria oocysts from a newborn chick
INVENTOR(S): Wallach, Michael, Jerusalem, Israel
Pugatsch, Thea, Maaleh Adumin, Israel
Mencher, David, Jerusalem, Israel
PATENT ASSIGNEE(S): Chilwalner, Tel-Aviv, Israel (non-U.S. corporation)

	NUMBER	KIND	DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5496550		19960305
APPLICATION INFO.:	US 1993-108763		19930817 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-642219, filed on 16 Jan 1991, now abandoned which is a continuation-in-part of Ser. No. US 1989-310603, filed on 14 Feb 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-155245, filed on 12 Feb 1988, now abandoned which is a continuation-in-part of Ser. No. US 1986-896611, filed on 14 Aug 1986, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	CA 1987-544427	19870813

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sidberry, Hazel F.
LEGAL REPRESENTATIVE: White, John P.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 19 Drawing Page(s)
LINE COUNT: 2051

L13 ANSWER 78 OF 112 USPATFULL
ACCESSION NUMBER: 96:3496 USPATFULL
TITLE: Detection and therapy of lesions with biotin/avidin polymer conjugates
INVENTOR(S): Griffiths, Gary L., Morristown, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Inc., Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5482698		19960109
APPLICATION INFO.:	US 1993-51144		19930422 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wu, Shean
ASSISTANT EXAMINER: Chapman, Lara E.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
LINE COUNT: 1738
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 79 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 96:489104 SCISEARCH
THE GENUINE ARTICLE: UT657
TITLE: NATURAL IMMUNE-RESPONSE TO THE C-TERMINAL 19-KILODALTON DOMAIN OF **PLASMODIUM-FALCIPARUM** MEROZOITE SURFACE **PROTEIN**-1
AUTHOR: SHI Y P; SAYED U; QARI S H; ROBERTS J M; UDHAYAKUMAR V; OLOO A J; HAWLEY W A; KASLOW D C; NAHLEN B L; LAL A A (Reprint)
CORPORATE SOURCE: NCID, CTR DIS CONTROL & PREVENT, MOL VACCINE SECT, DIV PARASIT DIS, MAIL STOP F-12, 4770 BUFORD HWY, CHAMBLEE, GA, 30341 (Reprint); NCID, CTR DIS CONTROL & PREVENT, MOL VACCINE SECT, DIV PARASIT DIS, CHAMBLEE, GA, 30341; KENYA GOVT MED RES CTR, VECTOR BIOL & CONTROL RES CTR, KISUMU, KENYA; NIAID, MALARIA RES LAB, NIH, BETHESDA, MD, 20892
COUNTRY OF AUTHOR: USA; KENYA
SOURCE: INFECTION AND IMMUNITY, (JUL 1996) Vol. 64, No. 7, pp. 2716-2723.
ISSN: 0019-9567.

DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 28
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 80 OF 112 MEDLINE
ACCESSION NUMBER: 96406691 MEDLINE
DOCUMENT NUMBER: 96406691 PubMed ID: 8810805
TITLE: Current state and problems of the development of malaria vaccine.
AUTHOR: Tanabe K
CORPORATE SOURCE: Laboratory of Biology, Faculty of Technology, Osaka Institute of Technology.
SOURCE: NIPPON RINSHO. JAPANESE JOURNAL OF CLINICAL MEDICINE, (1996 Aug) 54 (8) 2252-60. Ref: 18
Journal code: KIM; 0420546. ISSN: 0047-1852.
PUB. COUNTRY: Japan
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: Japanese
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199612
ENTRY DATE: Entered STN: 19970128
Last Updated on STN: 19970128
Entered Medline: 19961203

L13 ANSWER 81 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 97:13193 CABA
DOCUMENT NUMBER: 970800457
TITLE: Immune responses in congenic mice to multiple antigen peptides based on defined **epitopes** from the malaria antigen Pf332
AUTHOR: Ahlborg, N.; Andersson, R.; Perlmann, P.; Berzins, K.
CORPORATE SOURCE: Department of Immunology, Stockholm University, Stockholm, S-106 91 Stockholm, Sweden.
SOURCE: Immunology, (1996) Vol. 88, No. 4, pp. 630-635. 30 ref.
ISSN: 0019-2805
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 82 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 96:54434 CABA
DOCUMENT NUMBER: 962002380
TITLE: Identification of T and B cell **epitopes** recognized by humans in the C-terminal 42-kDa domain of the **Plasmodium falciparum** merozoite surface **protein** (MSP)-1
AUTHOR: Udhayakumar, V.; Anyona, D.; Kariuki, S.; Shi YaPing; Bloland, P. B.; Branch, O. H.; Weiss, W.; Nahlen, B. L.; Kaslow, D. C.; Lal, A. A.
CORPORATE SOURCE: Centers for Disease Control and Prevention, 4770 Buford Hwy., Chamblee, GA 30341-3724, USA.
SOURCE: Journal of Immunology (Baltimore), (1995) Vol. 154, No. 11, pp. 6022-6030. 28 ref.
ISSN: 0022-1767
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 83 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 95:145559 SCISEARCH

THE GENUINE ARTICLE: QG755
TITLE: HUMAN IMMUNE RECOGNITION OF RECOMBINANT **PROTEINS** REPRESENTING DISCRETE DOMAINS OF THE **PLASMODIUM-FALCIPARUM** GAMETE SURFACE **PROTEIN**, PFS230
AUTHOR: RILEY E M (Reprint); WILLIAMSON K C; GREENWOOD B M; KASLOW D C
CORPORATE SOURCE: UNIV EDINBURGH, INST CELL ANIM & POPULAT BIOL, DIV BIOL SCI, W MAINS RD, EDINBURGH EH9 3JT, MIDLOTHIAN, SCOTLAND (Reprint); NIAID, MALARIA RES LAB, MOLEC VACCINE SECT, BETHESDA, MD, 20892; MRC LABS, FAJARA, GAMBIA
COUNTRY OF AUTHOR: SCOTLAND; USA; GAMBIA
SOURCE: PARASITE IMMUNOLOGY, (JAN 1995) Vol. 17, No. 1, pp. 11-19. ISSN: 0141-9838.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 26
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 84 OF 112 USPATFULL
ACCESSION NUMBER: 94:64243 USPATFULL
TITLE: Detection and treatment of infections with immunoconjugates
INVENTOR(S): Goldenberg, M. David, Short Hills, NJ, United States
PATENT ASSIGNEE(S): Immunomedics, Morris Plains, NJ, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5332567		19940726
APPLICATION INFO.:	US 1993-37659		19930322 (8)

DISCLAIMER DATE: 20070515
RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-840591, filed on 18 Feb 1992, now abandoned which is a continuation of Ser. No. US 1989-399566, filed on 24 Aug 1989, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Waddell, Frederick E.
ASSISTANT EXAMINER: Hook, Gregory
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 20
LINE COUNT: 1460
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 85 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 95:180916 CABA
DOCUMENT NUMBER: 952006910
TITLE: Induction of antibodies to the **Plasmodium falciparum** merozoite surface **protein** -1 (MSP1) by cross-priming with heterologous MSP1s
AUTHOR: Hui, G. S. N.; Hashimoto, A. C.; Nikaido, C. M.; Choi, J.; Chang, S. P.
CORPORATE SOURCE: Department of Tropical Medicine, University of Hawaii, 3675 Kilauea Avenue, Honolulu, HI 96816, USA.
SOURCE: Journal of Immunology (Baltimore), (1994) Vol. 153, No. 3, pp. 1195-1200. 15 ref.
ISSN: 0022-1767
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 86 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)

ACCESSION NUMBER: 94:328421 SCISEARCH
THE GENUINE ARTICLE: NB852
TITLE: MALARIA VACCINES - CURRENT STATUS
AUTHOR: CORRADIN G (Reprint); ENGERS H; TRIGG P I
CORPORATE SOURCE: UNIV LAUSANNE, INST BIOCHEM, CHEMIN BOVERESSES 155, CH-1066 EPALINGES, SWITZERLAND (Reprint); WHO, SPECIAL PROGRAMME RES & TRAINING TROP DIS, WORLD BANK, UNDP, CH-1211 GENEVA 27, SWITZERLAND; WHO, DIV CONTROL TROP DIS, MALARIA UNIT, CH-1211 GENEVA 27, SWITZERLAND
COUNTRY OF AUTHOR: SWITZERLAND
SOURCE: CLINICAL IMMUNOTHERAPEUTICS, (MAR 1994) Vol. 1, No. 3, pp. 191-198.
ISSN: 1172-7039.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: CLIN
LANGUAGE: ENGLISH
REFERENCE COUNT: 40
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 87 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 95:131532 CABA
DOCUMENT NUMBER: 952002513
TITLE: **Plasmodium falciparum** liver stage antigen-1 is well conserved and contains potent B and **T cell** determinants
AUTHOR: Fidock, D. A.; Gras-Masse, H.; Lepers, J. P.; Brahimi, K.; Benmohamed, L.; Mellouk, S.; Guerin-Marchand, C.; Londono, A.; Raharimalala, L.; Meis, J. F. G. M.; Langsley, G.; Roussilhon, C.; Tartar, A.; Druilhe, P.
CORPORATE SOURCE: Bio-Medical Parasitology Laboratory, Pasteur Institute, Paris, France.
SOURCE: Journal of Immunology (Baltimore), (1994) Vol. 153, No. 1, pp. 190-204. 58 ref.
ISSN: 0022-1767
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 88 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1994:359349 BIOSIS
DOCUMENT NUMBER: PREV199497372349
TITLE: B- and **T-cell** responses in congenic mice to repeat sequences of the malaria antigen Pf332: Effects of the number of repeats.
AUTHOR(S): Ahlborg, Niklas (1); Andersson, Roland; Stahl, Stefan; Hansson, Marianne; Andersson, Ingegard; Perlmann, Peter; Berzins, Klavs
CORPORATE SOURCE: (1) Dep. Immunol., Stockholm Univ., S-10691 Stockholm Sweden
SOURCE: Immunology Letters, (1994) Vol. 40, No. 2, pp. 147-155.
ISSN: 0165-2478.
DOCUMENT TYPE: Article
LANGUAGE: English

L13 ANSWER 89 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 95:124753 CABA
DOCUMENT NUMBER: 950805829
TITLE: A novel merozoite surface antigen of **Plasmodium falciparum** (MSP-3) identified by cellular-antibody cooperative mechanism antigenicity and biological activity of antibodies
AUTHOR: Oeuvray, C.; Bouharoun-Tayoun, H.; Gras-Masse, H.; Iepers, J. P.; Ralamboranto, L.; Tartar, A.;

Druilhe, P.; Herrera, S. [EDITOR]; Jepsen, S. [EDITOR]
CORPORATE SOURCE: Laboratoire de Parasitologie Medicale, Institut Pasteur, 28 rue du Docteur Roux, 75015 Paris, France.
SOURCE: Memorias do Instituto Oswaldo Cruz, (1994) Vol. 89, No. Suppl. II, pp. 77-80. 12 ref.
Meeting Info.: Proceedings of the CEC malaria contract holders meeting & CEC/Latin America malaria conference, 5-11 September, 1993, Cali, Colombia.
DOCUMENT TYPE: Conference Article; Journal
LANGUAGE: English

L13 ANSWER 90 OF 112 USPATFULL
ACCESSION NUMBER: 93:61176 USPATFULL
TITLE: Malaria antigen
INVENTOR(S): Dziegiel, Morten, Roskilde, Denmark
Borre, Martin, Copenhagen, Denmark
Jepsen, Soren, Overisse, Belgium
Vuust, Jens, Dragor, Denmark
Rieneck, Klaus, Copenhagen, Denmark
Wind, Annette, Farum, Denmark
Jakobsen, Palle H., Koge, Denmark
PATENT ASSIGNEE(S): Statens Seruminstitut, Copenhagen, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5231168		19930727
APPLICATION INFO.:	US 1989-409658		19890918 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1989-318885, filed on 3 Mar 1989, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1988-5191	19880916

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Sidberry, H.
LEGAL REPRESENTATIVE: Cooper, Iver P.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 20 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 3314
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 91 OF 112 USPATFULL
ACCESSION NUMBER: 93:59259 USPATFULL
TITLE: Multiple antigen peptide system
INVENTOR(S): Tam, James P., New York, NY, United States
PATENT ASSIGNEE(S): The Rockefeller University, New York, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5229490		19930720
APPLICATION INFO.:	US 1990-631185		19901220 (7)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1989-336845, filed on 12 Apr 1989, now abandoned which is a continuation of Ser. No. US 1987-68840, filed on 30 Jun 1987, now abandoned which is a continuation-in-part of Ser. No. US 1987-47204, filed on 6 May 1987, now abandoned
DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Kim, Kay K.
LEGAL REPRESENTATIVE: Wyatt, Gerber, Burke and Badie
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 1262
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 92 OF 112 USPATFULL
ACCESSION NUMBER: 93:22796 USPATFULL
TITLE: Synthetic peptides useful as universal carriers for the preparation of immunogenic conjugates and their use in the development of synthetic vaccines
INVENTOR(S): Bianchi, Elisabetta, Rome, Italy
Pessi, Antonello, Rome, Italy
Corradin, Giampietro, Lausanne, Switzerland
PATENT ASSIGNEE(S): Eniricerche S.p.A., Milan, Italy (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5196512		19930323
APPLICATION INFO.:	US 1990-610525		19901108 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	IT 1989-22355	19891110

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Kim, Kay K.
LEGAL REPRESENTATIVE: Shea & Gould
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 821
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 93 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 94:160947 SCISEARCH
THE GENUINE ARTICLE: BZ60L
TITLE: DEVELOPMENTS WITH ANTIMALARIAL VACCINES
AUTHOR: HOLDER A A (Reprint)
CORPORATE SOURCE: NATL INST MED RES, DIV PARASITOL, LONDON NW7 1AA, ENGLAND (Reprint)
COUNTRY OF AUTHOR: ENGLAND
SOURCE: ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1993) Vol. 700, pp. 7-21.
ISSN: 0077-8923.
DOCUMENT TYPE: General Review; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 115

L13 ANSWER 94 OF 112 USPATFULL
ACCESSION NUMBER: 92:38305 USPATFULL
TITLE: Vaccines for the malaria circumsporozoite **protein**
INVENTOR(S): Brey, III, Robert N., Rochester, NY, United States
Majarian, William R., Pittsford, NY, United States
Pillai, Subramonia, Rochester, NY, United States
Hockmeyer, Wayne T., Pittsford, NY, United States
PATENT ASSIGNEE(S): Praxis Biologics, Inc., Rochester, NY, United States

(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5112749		19920512
APPLICATION INFO.:	US 1987-104735		19871002 (7)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ellis, Joan
LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds
NUMBER OF CLAIMS: 50
EXEMPLARY CLAIM: 22
NUMBER OF DRAWINGS: 19 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 2274
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 95 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1993:75061 BIOSIS
DOCUMENT NUMBER: PREV199395039561
TITLE: Antibodies and reactive **T cells** against the malaria heat-shock **protein** Pf72/Hsp70-1 and derived peptides in individuals continuously exposed to **Plasmodium falciparum**.
AUTHOR(S): Behr, Charlotte (1); Sarthou, Jean-Louis; Rogier, Christophe; Trape, Jean-Francois; Dat, Myoura Huynh Quan; Michel, Jean-Claude; Aribot, Georgette; Dieye, Alioune; Claverie, Jean-Michel; et al.
CORPORATE SOURCE: (1) Unite de Parasitologie Experimentale, Inst. Pasteur, 25-28 rue du Docteur Roux, 75724 Paris, Cedex 15 France
SOURCE: Journal of Immunology, (1992) Vol. 149, No. 10, pp. 3321-3330.
ISSN: 0022-1767.
DOCUMENT TYPE: Article
LANGUAGE: English

L13 ANSWER 96 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 92:616776 SCISEARCH
THE GENUINE ARTICLE: JT982
TITLE: RECOGNITION OF DIFFERENT DOMAINS OF THE **PLASMODIUM -FALCIPARUM** CS **PROTEIN** BY THE SERA OF NATURALLY INFECTED INDIVIDUALS COMPARED WITH THOSE OF SPOROZOITE-IMMUNIZED VOLUNTEERS
AUTHOR: CALLE J M C; NARDIN E H; CLAVIJO P; BOUDIN C; STUBER D; TAKACS B; NUSSENZWEIG R S; COCHRANE A H (Reprint)
CORPORATE SOURCE: NYU, SCH MED, DEPT MED & MOLEC PARASITOL, 341 E 25TH ST, NEW YORK, NY, 10010; UNIV GRENOBLE, DEPT PARASITOL, GRENOBLE, FRANCE; F HOFFMANN LA ROCHE & CO LTD, PHARMACEUT RES NEW TECHNOL, CH-4002 BASEL, SWITZERLAND
COUNTRY OF AUTHOR: USA; FRANCE; SWITZERLAND
SOURCE: JOURNAL OF IMMUNOLOGY, (15 OCT 1992) Vol. 149, No. 8, pp. 2695-2701.
ISSN: 0022-1767.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 37
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 97 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 92:353981 SCISEARCH
THE GENUINE ARTICLE: HX421
TITLE: PROTECTION OF AOTUS MONKEYS FROM MALARIA INFECTION BY IMMUNIZATION WITH RECOMBINANT HYBRID **PROTEINS**
AUTHOR: KNAPP B (Reprint); HUNDT E; ENDERS B; KUPPER H A

CORPORATE SOURCE: BEHRINGWERKE AG, RES LABS, W-3550 MARBURG, GERMANY (Reprint)
COUNTRY OF AUTHOR: GERMANY
SOURCE: INFECTION AND IMMUNITY, (JUN 1992) Vol. 60, No. 6, pp. 2397-2401.
ISSN: 0019-9567.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 25
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 98 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 92:630390 SCISEARCH
THE GENUINE ARTICLE: JV012
TITLE: ADJUVANT-DEPENDENT IMMUNE-RESPONSE TO MALARIAL TRANSMISSION-BLOCKING VACCINE CANDIDATE ANTIGENS
AUTHOR: RAWLINGS D J; KASLOW D C (Reprint)
CORPORATE SOURCE: NIAID, MALARIA RES LAB, MOLEC VACCINE SECT, BLDG 4, ROOM B1-37, BETHESDA, MD, 20892
COUNTRY OF AUTHOR: USA
SOURCE: JOURNAL OF EXPERIMENTAL MEDICINE, (01 NOV 1992) Vol. 176, No. 5, pp. 1483-1487.
ISSN: 0022-1007.
DOCUMENT TYPE: Note; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 34
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 99 OF 112 SCISEARCH COPYRIGHT 2002 ISI (R)
ACCESSION NUMBER: 92:508331 SCISEARCH
THE GENUINE ARTICLE: JJ844
TITLE: MALARIA VACCINES
AUTHOR: ROMERO P (Reprint)
CORPORATE SOURCE: LUDWIG INST CANC RES, LAUSANNE BRANCH, CH-1066 EPALINGES, SWITZERLAND (Reprint)
COUNTRY OF AUTHOR: SWITZERLAND
SOURCE: CURRENT OPINION IN IMMUNOLOGY, (AUG 1992) Vol. 4, No. 4, pp. 432-441.
ISSN: 0952-7915.
DOCUMENT TYPE: General Review; Journal
FILE SEGMENT: LIFE
LANGUAGE: ENGLISH
REFERENCE COUNT: 92
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L13 ANSWER 100 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 95:124236 CABA
DOCUMENT NUMBER: 950805310
TITLE: **T cell** responses to repeat and non-repeat regions of the circumsporozoite **protein** detected in volunteers immunized with **Plasmodium falciparum** sporozoites
AUTHOR: Nardin, E.; Munesinghe, Y. D.; Moreno, A.; Clavijo, P.; Calvo Calle, M.; Edelman, R.; Davis, J.; Herrington, D.; Nussenzweig, R. S.; Calle, M. C.; Ribeiro, C. T. D. [EDITOR]; Momen, H. [EDITOR]
CORPORATE SOURCE: Department of Medical and Molecular Parasitology, New York University Medical Center, 341 East 25th Street, New York, NY 10010, USA.
SOURCE: Memorias do Instituto Oswaldo Cruz, (1992) Vol. 87, No. Suppl. III, pp. 223-227. 22 ref.

Meeting Info.: Proceedings of the IV international congress on malaria and babesiosis, Rio de Janeiro, August 13-17, 1991.
ISSN: 0074-0276
DOCUMENT TYPE: Journal
LANGUAGE: English

L13 ANSWER 101 OF 112 USPATFULL
ACCESSION NUMBER: 91:44652 USPATFULL
TITLE: Expression cDNA clones encoding antigens of onchocerca volvulus
INVENTOR(S): Greene, Bruce M., Shaker Heights, OH, United States
Unnasch, Thomas R., South Euclid, OH, United States
PATENT ASSIGNEE(S): University Hospitals of Cleveland, Cleveland, OH, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5021342		19910604
APPLICATION INFO.:	US 1988-214264		19880630 (7)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Teskin, Robin L.
ASSISTANT EXAMINER: Ellis, Joan
LEGAL REPRESENTATIVE: Sprung Horn Kramer & Woods
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)
LINE COUNT: 1042
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 102 OF 112 MEDLINE
ACCESSION NUMBER: 92096420 MEDLINE
DOCUMENT NUMBER: 92096420 PubMed ID: 1721837
TITLE: Cytotoxic CD4+ **T cells** from a sporozoite-immunized volunteer recognize the **Plasmodium falciparum** CS **protein**
.
AUTHOR: Moreno A; Clavijo P; Edelman R; Davis J; Sztein M; Herrington D; Nardin E
CORPORATE SOURCE: Department of Medical and Molecular Parasitology, New York University School of Medicine, NY 10010.
CONTRACT NUMBER: 1F05TW04468-01 (FIC)
AI 25085 (NIAID)
AI 62533 (NIAID)
SOURCE: INTERNATIONAL IMMUNOLOGY, (1991 Oct) 3 (10) 997-1003.
Journal code: AY5; 8916182. ISSN: 0953-8178.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199202
ENTRY DATE: Entered STN: 19920223
Last Updated on STN: 19980206
Entered Medline: 19920203

L13 ANSWER 103 OF 112 USPATFULL
ACCESSION NUMBER: 90:17613 USPATFULL
TITLE: Antigenic determinants recognized by antibodies obtained using a pathogenic agent or a derivative thereof that presents a restricted set of antigens
INVENTOR(S): Lyon, Jeffery A., Silver Spring, MD, United States
Chulay, Jeffrey L., Washington, DC, United States
Thomas, Alan W., Silver Spring, MD, United States

Howard, Russell J., Los Altos Hills, CA, United States
Weber, James L., Marshfield, WI, United States
PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Army, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4906564		19900306
APPLICATION INFO.:	US 1987-25741		19870313 (7)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.
LEGAL REPRESENTATIVE: Bellamy, Werten F. W.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 817
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 104 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 91:13844 CABA
DOCUMENT NUMBER: 910869129
TITLE: The **T cell** reactivity against the major merozoite **protein** of **Plasmodium falciparum**
AUTHOR: Crisanti, A.; Fruh, K.; Muller, H. M.; Bujard, H.
CORPORATE SOURCE: ZMBH, Zentrum fur Molekulare Biologie Heidelberg, Universitat Heidelberg, Im Neuenheimer Feld 282, 6900 Heidelberg, Germany.
SOURCE: Immunology Letters, (1990) Vol. 25, No. 1-3, pp. 143-148. Fogarty/WHO International Conference on Cellular Mechanisms in Malaria Immunity, Bethesda, MD, USA, 3-6 April, 1990. 20 ref.
ISSN: 0165-2478
DOCUMENT TYPE: Journal; Conference Article
LANGUAGE: English

L13 ANSWER 105 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 93:64337 CABA
DOCUMENT NUMBER: 930803531
TITLE: Cellular and humoral immune responses to a recombinant P. falciparum CS **protein** in sporozoite-immunized rodents and human volunteers
AUTHOR: Nardin, E. H.; Nussenzweig, R. S.; Altszuler, R.; Herrington, D.; Levine, M.; Murphy, J.; Davis, J.; Bathurst, I.; Barr, P.; Romero, P.; Zavala, F.
CORPORATE SOURCE: Department of Medical and Molecular Parasitology, New York University School of Medicine, New York NY, USA.
SOURCE: Bulletin of the World Health Organization, (1990) Vol. 68, No. Supplement, pp. 85-87. Proceedings of a conference held in Bethesda, Maryland, USA, 12-15 April 1989. 10 ref.
ISSN: 0042-9686
DOCUMENT TYPE: Conference Article; Journal
LANGUAGE: English

L13 ANSWER 106 OF 112 CABA COPYRIGHT 2002 CABI
ACCESSION NUMBER: 93:64336 CABA
DOCUMENT NUMBER: 930803530
TITLE: Evidence implicating MHC genes in the immunological nonresponsiveness to the **Plasmodium falciparum** CS **protein**

AUTHOR: Good, M. F.; Kumar, S.; Groot, A. S. de; Weiss, W. R.; Quakyi, I. A.; Dontfraid, F.; Smith, G. E.; Cochran, M.; Berzofsky, J. A.; Miller, L. H.
CORPORATE SOURCE: The Queensland Institute of Medical Research, Bramston Terrance, Herston, 4006, Brisbane, Qld., Australia.
SOURCE: Bulletin of the World Health Organization, (1990) Vol. 68, No. Supplement, pp. 80-84. Proceedings of a conference held in Bethesda, Maryland, USA, 12-15 April 1989. 26 ref.
ISSN: 0042-9686
DOCUMENT TYPE: Conference Article; Journal
LANGUAGE: English

L13 ANSWER 107 OF 112 LIFESCI COPYRIGHT 2002 CSA
ACCESSION NUMBER: 93:32888 LIFESCI
TITLE: Cellular and humoral immune responses to a recombinant P. falciparum CS **protein** in sporozoite-immunized rodents and human volunteers.
MALARIA VACCINE DEVELOPMENT: PRE-ERYTHROCYTIC **STAGES**.
AUTHOR: Nardin, E.H.; Nussenzweig, R.S.; Altszuler, R.; Herrington, D.; Levine, M.; Murphy, J.; Davis, J.; et al.; Hoffman, S.L. [editor]; Martinez, L.J. [editor]
CORPORATE SOURCE: Dep. Med. and Mol. Parasitol., New York Univ. Sch. Med., New York, NY 10016, USA
SOURCE: BULL. W.H.O., (1990) pp. 85-87.
Meeting Info.: Conference on Malaria Vaccine Development: Pre-erythrocytic Stages. Bethesda, MD (USA). 12-15 Apr 1989
ISBN: 92-4-068680-0.
DOCUMENT TYPE: Book
TREATMENT CODE: Conference
FILE SEGMENT: K
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 108 OF 112 LIFESCI COPYRIGHT 2002 CSA
ACCESSION NUMBER: 93:32918 LIFESCI
TITLE: An invariant, "universal" **T-cell** epitope in the P. falciparum circumsporozoite **protein**.
MALARIA VACCINE DEVELOPMENT: PRE-ERYTHROCYTIC **STAGES**.
AUTHOR: Sinigaglia, F.; Guttinger, M.; Matile, H.; Pink, J.R.L.; Hoffman, S.L. [editor]; Martinez, L.J. [editor]
CORPORATE SOURCE: Cent. Res. Units, Bld. 69/211, F. Hoffmann-La Roche Ltd., CH-4002 Basle, Switzerland
SOURCE: BULL. W.H.O., (1990) pp. 94-98.
Meeting Info.: Conference on Malaria Vaccine Development: Pre-erythrocytic Stages. Bethesda, MD (USA). 12-15 Apr 1989
ISBN: 92-4-068680-0.
DOCUMENT TYPE: Book
TREATMENT CODE: Conference
FILE SEGMENT: K
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 109 OF 112 LIFESCI COPYRIGHT 2002 CSA
ACCESSION NUMBER: 93:32873 LIFESCI
TITLE: Evidence implicating MHC genes in the immunological nonresponsiveness to the **Plasmodium falciparum** CS **protein**.

MALARIA VACCINE DEVELOPMENT: PRE-ERYTHROCYTIC **STAGES**.

AUTHOR: Good, M.F.; Kumar, S.; de Groot, A.S.; Weiss, W.R.; Quakyi, I.A.; Dontfraid, F.; Smith, G.E.; et al.; Hoffman, S.L. [editor]; Martinez, L.J. [editor]

CORPORATE SOURCE: Lab. Parasit. Dis., N.I.A.I.D., Natl. Inst. Health, Bethesda, MD 20014, USA

SOURCE: BULL. W.H.O., (1990) pp. 80-84.
Meeting Info.: Conference on Malaria Vaccine Development: Pre-erythrocytic Stages. Bethesda, MD (USA). 12-15 Apr 1989

ISBN: 92-4-068680-0.

DOCUMENT TYPE: Book
TREATMENT CODE: Conference
FILE SEGMENT: K
LANGUAGE: English
SUMMARY LANGUAGE: English

L13 ANSWER 110 OF 112 USPATFULL
ACCESSION NUMBER: 89:80739 USPATFULL
TITLE: Recombinant baculovirus occlusion bodies in vaccines and biological insecticides
INVENTOR(S): Fraser, Malcolm J., South Bend, IN, United States
Rosen, Elliot D., South Bend, IN, United States
Ploplis, Victoria A., South Bend, IN, United States
PATENT ASSIGNEE(S): American Biogenetic Sciences, Inc., Copiague, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4870023		19890926
APPLICATION INFO.:	US 1988-153736		19880208 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1987-26498, filed on 16 Mar 1987, now abandoned which is a continuation-in-part of Ser. No. US 1987-26499, filed on 16 Mar 1987
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wiseman, Thomas G.
ASSISTANT EXAMINER: Seidman, Stephanie
LEGAL REPRESENTATIVE: Pennie & Edmonds
NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 28 Drawing Figure(s); 26 Drawing Page(s)
LINE COUNT: 3868
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 111 OF 112 USPATFULL
ACCESSION NUMBER: 88:55417 USPATFULL
TITLE: Method and materials for development of immunological responses protective against malarial infection
INVENTOR(S): Ristic, Miodrag, Urbana, IL, United States
Chilbert, Mary L., Urbana, IL, United States
PATENT ASSIGNEE(S): University of Illinois, Urbana, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4767622		19880830
APPLICATION INFO.:	US 1983-524919		19830819 (6)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wiseman, Thomas G.
ASSISTANT EXAMINER: Tiejkin, Robin Lyn

LEGAL REPRESENTATIVE: Marshall, O'Toole, Gerstein, Murray & Bicknell
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1604
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 112 OF 112 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS. INC.
ACCESSION NUMBER: 1988:440220 BIOSIS
TITLE: **T-CELL EPITOPES** IN PF155-RESA
A MAJOR CANDIDATE FOR A **PLASMODIUM-FALCIPARUM** MALARIA VACCINE.
AUTHOR(S): KABILAN L; TROYE-BLOMBERG M; PERLMANN H; ANDERSON G; HOGH B; PETERSEN E; BJORKMAN A; PERLMANN P
CORPORATE SOURCE: DEP. IMMUNOL., UNIV. STOCKHOLM, S-10691 STOCKHOLM, SWEDEN.
SOURCE: PROC NATL ACAD SCI U S A, (1988) 85 (15), 5659-5663.
CODEN: PNASA6. ISSN: 0027-8424.
FILE SEGMENT: BA; OLD
LANGUAGE: English

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L6 ANSWER 1 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:389006 BIOSIS
DOCUMENT NUMBER: PREV200000389006
TITLE: Development, expression, and murine testing of a multistage **Plasmodium** falciparum malaria vaccine candidate.
AUTHOR(S): Shi, Ya Ping; Das, Parimal; Holloway, Brian; Udhayakumar, Venkatachalam; Tongren, Jon Eric; Candal, Francisco; Biswas, Sukla; Ahmad, Raies; **Hasnain, Seyed E.**; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Molecular Vaccine Section, Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Public Health Service, United States Department of Health and Human Service, Atlanta, GA, 30341-3717 USA
SOURCE: Vaccine, (15 June, 2000) Vol. 18, No. 25, pp. 2902-2914. print.
ISSN: 0264-410X.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L6 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1999:146248 BIOSIS
DOCUMENT NUMBER: PREV199900146248
TITLE: Immunogenicity and in vitro protective efficacy of a recombinant multistage **Plasmodium** falciparum candidate vaccine.
AUTHOR(S): Shi, Ya Ping; **Hasnain, Seyed E.**; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Div. Parasitic Diseases, Mol. Vaccine Sect., Cent. Dis. Control Prevention, Mail Stop F-12, 4770 Buford Highway, Chambee, GA 30341-3717 USA
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (Feb. 16, 1999) Vol. 96, No. 4, pp. 1615-1620.
ISSN: 0027-8424.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 3 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 1996:541528 BIOSIS
DOCUMENT NUMBER: PREV199699263884
TITLE: A one-step lysis procedure for 18S ribosomal RNA-based diagnosis of infection by **Plasmodium** species.
AUTHOR(S): Das, Ashis (1); Lal, Altaf A.; Talwar, Gursaran P.; **Hasnain, Seyed E.**; Sinha, Subrata
CORPORATE SOURCE: (1) Natl. Inst. Immunol., Aruna Asaf Ali Marg, New Delhi 110067 India
SOURCE: Analytical Biochemistry, (1996) Vol. 241, No. 2, pp. 262-264.
ISSN: 0003-2697.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:145032 CAPLUS
DOCUMENT NUMBER: 132:206925
TITLE: Recombinant multivalent malarial vaccine against **Plasmodium** falciparum
INVENTOR(S): Lal, Altaf A.; Shi, Ya Ping; **Hasnain, Seyed E.**
PATENT ASSIGNEE(S): United States Dept. of Health and Human Services, USA;

SOURCE: National Institute of Immunology
PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000011179	A1	20000302	WO 1999-US18869	19990819
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9957785	A1	20000314	AU 1999-57785	19990819
EP 1105487	A1	20010613	EP 1999-945095	19990819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.: US 1998-97703 P 19980821
WO 1999-US18869 W 19990819
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:640046 CAPLUS
DOCUMENT NUMBER: 123:75801
TITLE: Species-specific 18S rRNA gene amplification for the detection of P. falciparum and P. vivax malaria parasites
AUTHOR(S): Das, Ashis; Holloway, Brian; Collins, William E.; Shama, V. P.; Ghosh, Sushanta K.; Sinha, Subrata; **Hasnain, Seyed E.**; Talwar, Gursaran P.; Lal, Altaf A.
CORPORATE SOURCE: Natl. Inst. Immunol., New Delhi, 110067, India
SOURCE: Mol. Cell. Probes (1995), 9(3), 161-5
CODEN: MCPRE6; ISSN: 0890-8508
DOCUMENT TYPE: Journal
LANGUAGE: English

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L1 ANSWER 1 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:521219 BIOSIS
DOCUMENT NUMBER: PREV200100521219
TITLE: Geographic subdivision of the range of the malaria parasite Plasmodium vivax.
AUTHOR(S): Li, Jun; Collins, William E.; Wirtz, Robert A.; Rathore, Dharmendar; **Lal, Altaf**; McCutchan, Thomas F. (1)
CORPORATE SOURCE: (1) NIAID, National Institutes of Health, 4 Center Drive, Room 4/126, Bethesda, MD, 20892: tmccutchan@niaid.nih.gov USA
SOURCE: Emerging Infectious Diseases, (Jan Feb, 2001) Vol. 7, No. 1, pp. 35-42. print.
ISSN: 1080-6040.
DOCUMENT TYPE: General Review
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 2 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:359409 BIOSIS
DOCUMENT NUMBER: PREV200100359409
TITLE: Evidence for clonal propagation in natural isolates of Plasmodium falciparum from Venezuela.
AUTHOR(S): Urdaneta, Ludmel; **Lal, Altaf**; Barnabe, Christian; Oury, Bruno; Goldman, Ira; Ayala, Francisco J.; Tibayrenc, Michel (1)
CORPORATE SOURCE: (1) Centre d'Etudes sur le Polymorphisme des Microorganismes, Unite Mixte de Recherche, Centre National de la Recherche Scientifique/Institut de Recherche pour le Development 9926, 34000, Montpellier Cedex 1 France
SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (June 5, 2001) Vol. 98, No. 12, pp. 6725-6729. print.
ISSN: 0027-8424.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 3 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:206525 BIOSIS
DOCUMENT NUMBER: PREV200100206525
TITLE: Molecular characterization of Cryptosporidium oocysts in samples of raw surface water and wastewater.
AUTHOR(S): Xiao, Lihua (1); Singh, Ajaib; Limor, Josef; Graczyk, Thaddeus K.; Gradus, Steve; **Lal, Altaf**
CORPORATE SOURCE: (1) Division of Parasitic Diseases, Centers for Disease Control and Prevention, 4770 Buford Highway, Atlanta, GA, 30341: lax0@cdc.gov USA
SOURCE: Applied and Environmental Microbiology, (March, 2001) Vol. 67, No. 3, pp. 1097-1101. print.
ISSN: 0099-2240.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 4 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2001:77474 BIOSIS
DOCUMENT NUMBER: PREV200100077474
TITLE: Detection of the Cryptosporidium parvum "human" genotype in a dugong (Dugong dugon.
AUTHOR(S): Morgan, Una M. (1); Xiao, Lihua; Hill, Bruce D.; O'Donoghue, Peter; Limor, Josef; **Lal, Altaf**; Thompson, R. C. Andrew (1)
CORPORATE SOURCE: (1) World Health Organization Collaborating Centre for the Molecular Epidemiology of Parasitic Infections and State

Agricultural Biotechnology Centre, Division of Veterinary and Biomedical Sciences, Murdoch University, Murdoch, WA, 6150 Australia
SOURCE: Journal of Parasitology, (December, 2000) Vol. 86, No. 6, pp. 1352-1354. print.
ISSN: 0022-3395.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 5 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:261306 BIOSIS
DOCUMENT NUMBER: PREV200000261306
TITLE: Cryptosporidium spp. in domestic dogs: The "dog" genotype.
AUTHOR(S): Morgan, Una M. (1); Xiao, Lihua; Monis, Paul; Fall, Abbie; Irwin, Peter J.; Fayer, Ronald; Denholm, Karen M.; Limor, Josef; **Lal, Altaf**; Thompson, R. C. Andrew
CORPORATE SOURCE: (1) Division of Veterinary and Biomedical Sciences, Murdoch University, South St., Murdoch, WA, 6150 Australia
SOURCE: Applied and Environmental Microbiology, (May, 2000) Vol. 66, No. 5, pp. 2220-2223. print..
ISSN: 0099-2240.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 6 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:181910 BIOSIS
DOCUMENT NUMBER: PREV200000181910
TITLE: An outbreak of cryptosporidiosis linked to a foodhandler.
AUTHOR(S): Quiroz, Eva S.; Bern, Caryn (1); MacArthur, John R.; Xiao, Lihua; Fletcher, Madeleine; Arrowood, Michael J.; Shay, David K.; Levy, Martin E.; Glass, Roger I.; **Lal, Altaf**
CORPORATE SOURCE: (1) Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Center for Infectious Diseases, 4770 Buford Highway N.E., Atlanta, GA, 30341-3717 USA
SOURCE: Journal of Infectious Diseases, (Feb., 2000) Vol. 181, No. 2, pp. 695-700.
ISSN: 0022-1899.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 7 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
ACCESSION NUMBER: 2000:161826 BIOSIS
DOCUMENT NUMBER: PREV200000161826
TITLE: Molecular characterization of Cryptosporidium isolates obtained from human immunodeficiency virus-infected individuals living in Switzerland, Kenya, and the United States.
AUTHOR(S): Morgan, Una (1); Weber, Rainer; Xiao, Lihua; Sulaiman, Irshad; Andrew Thompson, R. C.; Ndiritu, Wangeci; **Lal, Altaf**; Moore, Anne; Deplazes, Peter
CORPORATE SOURCE: (1) Murdoch University, Murdoch, WA, 6150 Australia
SOURCE: Journal of Clinical Microbiology., (March, 2000) Vol. 38, No. 3, pp. 1180-1183.
ISSN: 0095-1137.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 8 OF 14 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:383475 BIOSIS
DOCUMENT NUMBER: PREV199900383475
TITLE: Molecular epidemiology of cryptosporidiosis outbreaks and transmission in British Columbia, Canada.
AUTHOR(S): Ong, Corinne S. L. (1); Eisler, Diane L.; Goh, Swee Han; Tomblin, Joan; Awad-El-Kariem, Fatih M.; Beard, Charles B.; Xiao, Lihua; Sulaiman, Irshad; **Lal, Altaf**; Fyfe, Murray; King, Arlene; Bowie, William R.; Isaac-Renton, Judith L.
CORPORATE SOURCE: (1) Department of Pathology and Laboratory Medicine and Division of Infectious Diseases, Faculty of Medicine, University of British Columbia, Vancouver, BC Canada
SOURCE: American Journal of Tropical Medicine and Hygiene, (July, 1999) Vol. 61, No. 1, pp. 63-69.
ISSN: 0002-9637.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L1 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:447787 CAPLUS
DOCUMENT NUMBER: 135:177871
TITLE: Evidence for clonal propagation in natural isolates of Plasmodium falciparum from Venezuela
AUTHOR(S): Urdaneta, Ludmel; **Lal, Altaf**; Barnabe, Christian; Oury, Bruno; Goldman, Ira; Ayala, Francisco J.; Tibayrenc, Michel
CORPORATE SOURCE: Centro de Investigaciones Biomedicas, Nucleo Aragua, Universidad de Carabobo, Nucleo Aragua, Maracay, Venez.
SOURCE: Proc. Natl. Acad. Sci. U. S. A. (2001), 98(12), 6725-6729
CODEN: PNASA6; ISSN: 0027-8424
PUBLISHER: National Academy of Sciences
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:170010 CAPLUS
DOCUMENT NUMBER: 134:256493
TITLE: Molecular characterization of Cryptosporidium oocysts in samples of raw surface water and wastewater
AUTHOR(S): Xiao, Lihua; Singh, Ajaib; Limor, Josef; Graczyk, Thaddeus K.; Gradus, Steve; **Lal, Altaf**
CORPORATE SOURCE: Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, 30341, USA
SOURCE: Appl. Environ. Microbiol. (2001), 67(3), 1097-1101
CODEN: AEMIDF; ISSN: 0099-2240
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:155668 CAPLUS
DOCUMENT NUMBER: 134:338165
TITLE: Geographic subdivision of the range of the malaria parasite Plasmodium vivax
AUTHOR(S): Li, Jun; Collins, William E.; Wirtz, Robert A.; Rathore, Dharmendar; **Lal, Altaf**; McCutchan, Thomas F.

CORPORATE SOURCE: National Institutes of Health, Bethesda, MD, 20892, USA
SOURCE: Emerging Infect. Dis. (2001), 7(1), 35-42
CODEN: EIDIFA; ISSN: 1080-6040
PUBLISHER: National Center for Infectious Diseases, Centers for Disease Control and Prevention
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:309707 CAPLUS
DOCUMENT NUMBER: 133:249539
TITLE: Cryptosporidium spp. in domestic dogs: the "dog" genotype
AUTHOR(S): Morgan, Una M.; Xiao, Lihua; Monis, Paul; Fall, Abbie; Irwin, Peter J.; Fayer, Ronald; Denholm, Karen M.; Limor, Josef; **Lal, Altaf**; Thompson, R. C. Andrew
CORPORATE SOURCE: World Health Organisation Collaborating Centre for the Molecular Epidemiology of Parasitic Infections and State Agricultural Biotechnology Centre, Division of Veterinary and Biomedical Sciences, Murdoch University, Murdoch, 6150, Australia
SOURCE: Appl. Environ. Microbiol. (2000), 66(5), 2220-2223
CODEN: AEMIDF; ISSN: 0099-2240
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:203613 CAPLUS
DOCUMENT NUMBER: 133:2289
TITLE: Molecular characterization of Cryptosporidium isolates obtained from human immunodeficiency virus-infected individuals living in Switzerland, Kenya, and the United States
AUTHOR(S): Morgan, Una; Weber, Rainer; Xiao, Lihua; Sulaiman, Irshad; Thompson, R. C. Andrew; Ndiritu, Wangeci; **Lal, Altaf**; Moore, Anne; Deplazes, Peter
CORPORATE SOURCE: Division of Veterinary and Biomedical Sciences, Murdoch University, Murdoch, 6150, Australia
SOURCE: J. Clin. Microbiol. (2000), 38(3), 1180-1183
CODEN: JCMIDW; ISSN: 0095-1137
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:305374 CAPLUS
DOCUMENT NUMBER: 125:7783
TITLE: Human immune response to MSP-1: Reply to comments
AUTHOR(S): Udhayakumar, Venkatachalam; Hawley, William; Nahlen, Bernard; **Lal, Altaf**
CORPORATE SOURCE: Division of Parasitic Diseases, National Centre for Infectious Diseases, Atlanta, GA, 30341, USA
SOURCE: Parasitol. Today (1996), 12(5), 206
CODEN: PATOE2; ISSN: 0169-4758
DOCUMENT TYPE: Journal

LANGUAGE: English

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(FILE 'HOME' ENTERED AT 12:22:14 ON 05 FEB 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH, USPATFULL, JAPIO' ENTERED AT 12:22:36 ON 05 FEB 2002

L1	176107	S	HISTIDINE
L2	22303	S	TAGGING
L3	149281	S	RECOMBINANT PROTEIN
L4	180005	S	EPITOPES
L5	621	S	L1 AND L2
L6	201	S	L5 AND L3
L7	101	S	L6 AND L4
L8	101	DUP REM	L7 (0 DUPLICATES REMOVED)
L9	70	S	L8 AND ADVANTAGES

=>

L8 ANSWER 1 OF 101 USPATFULL
ACCESSION NUMBER: 2002:22132 USPATFULL
TITLE: Insulin homolog polypeptide zins4
INVENTOR(S): Holloway, James L., Seattle, WA, UNITED STATES
Lok, Si, Seattle, WA, UNITED STATES
Jaspers, Stephen R., Edmonds, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002012967	A1	20020131
APPLICATION INFO.:	US 2001-781077	A1	20010209 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188544	20000310 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Susan E. Lingenfelter, ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
LINE COUNT: 3097

L8 ANSWER 2 OF 101 USPATFULL
ACCESSION NUMBER: 2002:21834 USPATFULL
TITLE: Human cytokine receptor
INVENTOR(S): Presnell, Scott R, Tacoma, WA, UNITED STATES
Xu, Wenfeng, Mukilteo, WA, UNITED STATES
Kindsvogel, Wayne, Seattle, WA, UNITED STATES
Chen, Zhi, Seattle, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002012669	A1	20020131
APPLICATION INFO.:	US 2000-728911	A1	20001201 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-169049	19991203 (60)
	US 2000-232219	20000913 (60)
	US 2000-244610	20001031 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Jennifer K Johnson J D, ZymoGenetics Inc, 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 66
EXEMPLARY CLAIM: 1
LINE COUNT: 7478

L8 ANSWER 3 OF 101 USPATFULL
ACCESSION NUMBER: 2002:21823 USPATFULL
TITLE: PREVENTION AND TREATMENT OF VEROTOXIN-INDUCED DISEASE
INVENTOR(S): WILLIAMS, JAMES A., LINCOLN, NE, UNITED STATES
BYRNE, LISA MARIE, STOUGHTON, WI, UNITED STATES
PUGH, CHARLES S.G., MADISON, WI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002012658	A1	20020131
APPLICATION INFO.:	US 1999-334477	A1	19990616 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1997-816977, filed on 13 Mar 1997, GRANTED, Pat. No. US 6080400
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: KAMRIN T MACKNIGHT, MEDLEN & CARROLL LLP, 220 MONTGOMERY STREET, SUITE 2200, SAN FRANCISCO, CA, 94104
NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)
LINE COUNT: 5803

L8 ANSWER 4 OF 101 USPATFULL
ACCESSION NUMBER: 2002:16895 USPATFULL
TITLE: Helical protein zalpha51
INVENTOR(S): Conklin, Darrell C., Seattle, WA, UNITED STATES
Presnell, Scott R., Tacoma, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002009775	A1	20020124
APPLICATION INFO.:	US 2001-810052	A1	20010316 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-190410	20000317 (60)
	US 2000-199443	20000425 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Deborah A. Sawislak, ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 44
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 3249

L8 ANSWER 5 OF 101 USPATFULL
ACCESSION NUMBER: 2002:16893 USPATFULL
TITLE: DEATH DOMAIN CONTAINING RECEPTORS
INVENTOR(S): YU, GUO-LIANG, DARNESTOWN, MD, UNITED STATES
NI, JIAN, ROCKVILLE, MD, UNITED STATES
GENTZ, REINER L., SILVER SPRING, MD, UNITED STATES
DILLON, PATRICK J., GAITHERSBURG, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002009773	A1	20020124
APPLICATION INFO.:	US 1999-333966	A1	19990616 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-815469, filed on 11 Mar 1997, GRANTED, Pat. No. US 6153402

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-13285	19960312 (60)
	US 1996-28711	19961017 (60)
	US 1997-37341	19970206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STERNE KESSLER GOLDSTEIN & FOX PLLC, ATTORNEYS AT LAW, 1100 NEW YORK AVENUE N W SUITE 600, WASHINGTON, DC, 200053934
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Page(s)
LINE COUNT: 3011

L8 ANSWER 6 OF 101 USPATFULL
ACCESSION NUMBER: 2002:12284 USPATFULL

TITLE: Arrayed transfection method and uses related thereto
INVENTOR(S): Sabatini, David M., Cambridge, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002006664	A1	20020117
APPLICATION INFO.:	US 2001-817003	A1	20010322 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-193580	20000330 (60)
	US 1999-154737	19990917 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: ROPES & GRAY, ONE INTERNATIONAL PLACE, BOSTON, MA, 02110-2624
NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 2671
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 7 OF 101 USPATFULL
ACCESSION NUMBER: 2002:3610 USPATFULL
TITLE: Zacel: a human metalloenzyme
INVENTOR(S): Sheppard, Paul O., Granite Falls, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002001583	A1	20020103
APPLICATION INFO.:	US 2001-846996	A1	20010501 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1999-440325, filed on 15 Nov 1999, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-109783	19981125 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Phillip Jones, Patent Department, ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 22
EXEMPLARY CLAIM: 1
LINE COUNT: 3929
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 8 OF 101 USPATFULL
ACCESSION NUMBER: 2001:224215 USPATFULL
TITLE: Human semaphorin ZSMF-16
INVENTOR(S): Holloway, James L., Seattle, WA, United States
Foley, Kevin P., Cambridge, MA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001049432	A1	20011206
APPLICATION INFO.:	US 2000-731179	A1	20001206 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-169238	19991206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Jennifer K. Johnson, J.D., ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102

NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 18 Drawing Page(s)
LINE COUNT: 3805
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 9 OF 101 USPATFULL
ACCESSION NUMBER: 2001:212528 USPATFULL
TITLE: Novel FGF Homolog zFGF12
INVENTOR(S): Conklin, Darrell C., Seattle, WA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001044525	A1	20011122
APPLICATION INFO.:	US 2001-754634	A1	20010104 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-174582	20000105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Deborah A. Sawislak, ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Page(s)
LINE COUNT: 2457
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 10 OF 101 USPATFULL
ACCESSION NUMBER: 2001:212140 USPATFULL
TITLE: Novel secreted polypeptide zsig87
INVENTOR(S): Sheppard, Paul O., Granite Falls, WA, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001044134	A1	20011122
APPLICATION INFO.:	US 2000-733523	A1	20001208 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-169597	19991208 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Jennifer K. Johnson, J.D., ZymoGenetics, Inc., 1201 Eastlake Avenue East, Seattle, WA, 98102
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
LINE COUNT: 3806
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 11 OF 101 USPATFULL
ACCESSION NUMBER: 2001:205584 USPATFULL
TITLE: Protein expression system arrays and use in biological screening
INVENTOR(S): Patron, Andrew, San Diego, CA, United States
Sawafta, Reyad, Greensboro, NC, United States
Zhou, Bin, Edmond, OK, United States

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001041349	A1	20011115
APPLICATION INFO.:	US 2001-836746	A1	20010417 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-197692	20000417 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Cynthia B. Rothschild, Kilpatrick Stockton LLP, 1001 West Fourth Street, Winston-Salem, NC, 27101
NUMBER OF CLAIMS: 51
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1513
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 12 OF 101 USPATFULL
ACCESSION NUMBER: 2001:188798 USPATFULL
TITLE: Proteoliposomes containing an integral membrane protein having one or more transmembrane domains
INVENTOR(S): Sodroski, Joseph G., Medford, MA, United States
Mirzabekov, Tajib, Newton, MA, United States
PATENT ASSIGNEE(S): Dana-Farber Cancer Institute, Inc. (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001034432	A1	20011025
APPLICATION INFO.:	US 2000-749240	A1	20001227 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-173675	19991230 (60)
	US 2000-207596	20000526 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Ronald I. Eisenstein, NIXON PEABODY LLP, 101 Federal Street, Boston, MA, 02110
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 19 Drawing Page(s)
LINE COUNT: 2083
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 13 OF 101 USPATFULL
ACCESSION NUMBER: 2001:123570 USPATFULL
TITLE: DNA fragmentation factor involved in apoptosis
INVENTOR(S): Wang, Xiaodong, Dallas, TX, United States
Liu, Xueson, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001011078	A1	20010802
APPLICATION INFO.:	US 2000-748451	A1	20001222 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-61702, filed on 16 Apr 1998, GRANTED, Pat. No. US 6165737
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Gina N. Shishima, Esq., FULBRIGHT & JAWORSKI, 600 Congress Avenue, Suite 1900, Austin, TX, 78701
NUMBER OF CLAIMS: 100
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Page(s)
LINE COUNT: 5190
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 14 OF 101 USPATFULL
ACCESSION NUMBER: 2001:231394 USPATFULL
TITLE: Maize DIMBOA biosynthesis genes
INVENTOR(S): Chomet, Paul S., Mystic, CT, United States
Frey, Monika, Garching, Germany, Federal Republic of
Gierl, Alfons, Munich, Germany, Federal Republic of
PATENT ASSIGNEE(S): Dekalb Genetics Corporation, Dekalb, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6331660	B1	20011218
APPLICATION INFO.:	US 1998-39046		19980313 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-40513	19970313 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Nelson, Amy J.
ASSISTANT EXAMINER: Zaghmout, O. M. F.
LEGAL REPRESENTATIVE: Fulbright & Jaworski LLP
NUMBER OF CLAIMS: 60
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 4040
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 15 OF 101 USPATFULL
ACCESSION NUMBER: 2001:231160 USPATFULL
TITLE: Secreted salivary ZSIG63 Polypeptide
INVENTOR(S): Adler, David A., Bainbridge Island, WA, United States
Sheppard, Paul O., Granite Falls, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6331413	B1	20011218
APPLICATION INFO.:	US 2000-527345		20000317 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-124820	19990317 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Prouty, Rebecca E.
ASSISTANT EXAMINER: Monshipouri, Maryam
LEGAL REPRESENTATIVE: Johnson, JD, Jennifer K.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
LINE COUNT: 2896
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 16 OF 101 USPATFULL
ACCESSION NUMBER: 2001:226818 USPATFULL
TITLE: High lysine fertile transgenic corn plants
INVENTOR(S): Lundquist, Ronald C., Minnetonka, MN, United States
Walters, David A., Groton, CT, United States
Kirihara, Julie A., Bloomington, MN, United States
PATENT ASSIGNEE(S): Dekalb Genetics Corporation, DeKalb, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6329574	B1	20011211
APPLICATION INFO.:	US 1998-122399		19980724 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1995-440646, filed on 15 May 1995 Division of Ser. No. US 1993-112245, filed on 25 Aug 1993 Continuation-in-part of Ser. No. US 1990-636089, filed on 28 Dec 1990, now abandoned Continuation-in-part of Ser. No. US 1990-508045, filed on 11 Apr 1990, now patented, Pat. No. US 5484956 Continuation-in-part of Ser. No. US 1990-467983, filed on 22 Jan 1990, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Benzion, Gary
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 55 Drawing Figure(s); 52 Drawing Page(s)
LINE COUNT: 10058
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 17 OF 101 USPATFULL
ACCESSION NUMBER: 2001:196825 USPATFULL
TITLE: Complementary DNAs
INVENTOR(S): Edwards, Jean-Baptiste Dumas Milne, Paris, France
Duclert, Aymeric, Saint Maur, France
Bougueleret, Lydie, Vanves, France
PATENT ASSIGNEE(S): Genset, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6312922	B1	20011106
APPLICATION INFO.:	US 1999-247155		19990209 (9)

PRIORITY INFORMATION:	NUMBER	DATE
	US 1998-74121	19980209 (60)
	US 1998-81563	19980413 (60)
	US 1998-96116	19980810 (60)
	US 1998-99273	19980904 (60)
	US 1998-96116	19980904 (60)
	US 1998-99273	19980904 (60)
	US 1998-99273	19980904 (60)
	US 1998-96116	19980904 (60)
	US 1998-99273	19980904 (60)
	US 1998-99273	19980904 (60)
	US 1998-99273	19980904 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Knoibbe, Martens, Olson & Bear, LLP
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 32
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 6339
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 18 OF 101 USPATFULL
ACCESSION NUMBER: 2001:190731 USPATFULL
TITLE: MHC molecules and uses thereof
INVENTOR(S): Rhode, Peter R., Miami, FL, United States
Jiao, Jin-An, Fort Lauderdale, FL, United States
Burkhardt, Martin, Miami, FL, United States
Wong, Hing C., Fort Lauderdale, FL, United States

PATENT ASSIGNEE(S): Sunol Molecular Corporation, Miramar, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6309645	B1	20011030
APPLICATION INFO.:	US 1998-67615		19980428 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-596387, filed on 31 Jan 1996, now patented, Pat. No. US 5869270
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Saunders, David
ASSISTANT EXAMINER: DeCloux, Amy
LEGAL REPRESENTATIVE: Buchanan, Robert L., Corless, Peter F.Edwards & Angell, LLP
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 82 Drawing Figure(s); 69 Drawing Page(s)
LINE COUNT: 4129
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 19 OF 101 USPATFULL
ACCESSION NUMBER: 2001:185455 USPATFULL
TITLE: Cytokine zalpha11 Ligand
INVENTOR(S): Novak, Julia E., Bainbridge Island, WA, United States
Presnell, Scott R., Tacoma, WA, United States
Sprecher, Cindy A., Seattle, WA, United States
Foster, Donald C., Lake Forest Park, WA, United States
Holly, Richard D., Seattle, WA, United States
Gross, Jane A., Seattle, WA, United States
Johnston, Janet V., Seattle, WA, United States
Nelson, Andrew J., Shoreline, WA, United States
Dillon, Stacey R., Seattle, WA, United States
Hammond, Angela K., Maple Valley, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6307024	B1	20011023
APPLICATION INFO.:	US 2000-522217		20000309 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-123547	19990309 (60)
	US 1999-123904	19990311 (60)
	US 1999-142013	19990701 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Stucker, Jeffrey
ASSISTANT EXAMINER: Seharaseyon, Jegatheesan
LEGAL REPRESENTATIVE: Sawislak, Deborah A.
NUMBER OF CLAIMS: 23
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 7160
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 20 OF 101 USPATFULL
ACCESSION NUMBER: 2001:173371 USPATFULL
TITLE: Peptides related to TPC2 and TPC3, two proteins that are coexpressed with telomerase activity
INVENTOR(S): Villeponteau, Bryant, San Carlos, CA, United States
Feng, Junli, San Carlos, CA, United States

Andrews, William H., Richmond, CA, United States
Adams, Robert R., Redwood City, CA, United States
PATENT ASSIGNEE(S): Geron Corporation, Menlo Park, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6300110	B1	20011009
APPLICATION INFO.:	US 1998-220157		19981223 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-710249, filed on 13 Sep 1996, now patented, Pat. No. US 5858777
Continuation-in-part of Ser. No. US 1996-583808, filed on 5 Jan 1996, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-3492	19950909 (60)
	US 1995-8949	19951020 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Saidha, Tekchand
LEGAL REPRESENTATIVE: Geron Corporation, Schiff, J. Michael, Earp, David J.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 2310
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 21 OF 101 USPATFULL
ACCESSION NUMBER: 2001:152483 USPATFULL
TITLE: Modified HGP-30 heteroconjugates, compositions and methods of use
INVENTOR(S): Zimmerman, Daniel H., Bethesda, MD, United States
Sarin, Prem S., Gaithersburg, MD, United States
PATENT ASSIGNEE(S): Cel-Sci Corporation, Vienna, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6287565	B1	20010911
APPLICATION INFO.:	US 2000-594845		20000615 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-695304, filed on 8 Aug 1996, now patented, Pat. No. US 6103239
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Stucker, Jeffrey
LEGAL REPRESENTATIVE: Sherman & Shalloway
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 1227
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 22 OF 101 USPATFULL
ACCESSION NUMBER: 2001:147718 USPATFULL
TITLE: Mitofusin genes and their uses
INVENTOR(S): Fuller, Margaret T., Stanford, CA, United States
Hales, Karen G., Durham, NC, United States
PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE

PATENT INFORMATION: US 6284507 B1 20010904
APPLICATION INFO.: US 1999-447453 19991122 (9)
RELATED APPLN. INFO.: Division of Ser. No. US 1998-90808, filed on 4 Jun 1998

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48961	19970606 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Prouty, Rebecca E.
ASSISTANT EXAMINER: Rao, Manjunath
LEGAL REPRESENTATIVE: Sherwood, Pamela J.Bozicevic, Field & Francis LLP
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1556
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 23 OF 101 USPATFULL
ACCESSION NUMBER: 2001:142135 USPATFULL
TITLE: Zace 1: a human metalloenzyme
INVENTOR(S): Sheppard, Paul O., Granite Falls, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6280994	B1	20010828
APPLICATION INFO.:	US 1999-440325		19991115 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Jones, Phillip B. C.
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
LINE COUNT: 3706
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 24 OF 101 USPATFULL
ACCESSION NUMBER: 2001:136184 USPATFULL
TITLE: Immunoglobulin-like domains with increased half-lives
INVENTOR(S): Ward, Elizabeth Sally, Dallas, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6277375	B1	20010821
APPLICATION INFO.:	US 1997-811463		19970303 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Saunders, David
LEGAL REPRESENTATIVE: Fulbright & Jaworski
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 19 Drawing Figure(s); 15 Drawing Page(s)
LINE COUNT: 4495
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 25 OF 101 USPATFULL
ACCESSION NUMBER: 2001:126193 USPATFULL
TITLE: Cells and methods for the generation of transgenic pigs
INVENTOR(S): Piedrahita, Jorge A., College Station, TX, United

States
Bazer, Fuller W., College Station, TX, United States
PATENT ASSIGNEE(S): The Texas A & M University System, College Station, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6271436	B1	20010807
APPLICATION INFO.:	US 1997-949155		19971010 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-27338	19961011 (60)
	US 1997-46094	19970509 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Martin, Jill D.
LEGAL REPRESENTATIVE: Williams, Morgan & Amerson
NUMBER OF CLAIMS: 69
EXEMPLARY CLAIM: 55
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 8905

L8 ANSWER 26 OF 101 USPATFULL
ACCESSION NUMBER: 2001:117169 USPATFULL
TITLE: Expressed ligand-vascular intercellular signalling molecule
INVENTOR(S): Davis, Samuel, New York, NY, United States
Yancopoulos, George D., Yorktown Heights, NY, United States
PATENT ASSIGNEE(S): Regeneron Pharmaceuticals, Inc., Tarrytown, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6265564	B1	20010724
APPLICATION INFO.:	US 1996-740223		19961025 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-22999	19960802 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Saunders, David
ASSISTANT EXAMINER: DeCloux, Amy
LEGAL REPRESENTATIVE: Cobert, Robert J., Palladino, Linda O.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 54 Drawing Figure(s); 47 Drawing Page(s)
LINE COUNT: 2851
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 27 OF 101 USPATFULL
ACCESSION NUMBER: 2001:117149 USPATFULL
TITLE: Adipocyte-specific protein homologs
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6265544	B1	20010724
APPLICATION INFO.:	US 1998-118408		19980717 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-53154	19970718 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Tung, Peter P.
LEGAL REPRESENTATIVE: Lingenfelter, Susan
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 3358
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 28 OF 101 USPATFULL
ACCESSION NUMBER: 2001:116805 USPATFULL
TITLE: Disintegrin homologs
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
Baindur, Nand, Edmonds, WA, United States
Deisher, Theresa A., Seattle, WA, United States
Bishop, Paul D., Fall City, WA, United States
Taft, David W., Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6265199	B1	20010724
APPLICATION INFO.:	US 1999-351414		19990709 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-92371	19980710 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Kerr, Kathleen
LEGAL REPRESENTATIVE: Adams, Robyn
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 17 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 2822
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 29 OF 101 USPATFULL
ACCESSION NUMBER: 2001:112506 USPATFULL
TITLE: Tumor suppressor designated TS10Q23.3
INVENTOR(S): Steck, Peter, Bellaire, TX, United States
Pershouse, Mark A., Houston, TX, United States
Jasser, Samar A., Houston, TX, United States
Yung, W. K. Alfred, Houston, TX, United States
Tavtigian, Sean V., Salt Lake City, UT, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)
Myriad Genetics, Inc., Salt Lake City, UT, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6262242	B1	20010717
APPLICATION INFO.:	US 1997-791115		19970130 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Caputa, Anthony C.

ASSISTANT EXAMINER: Canella, Karen A.
LEGAL REPRESENTATIVE: Rothwell, Figg, Ernst & Manbeck, p.c.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 39 Drawing Figure(s); 33 Drawing Page(s)
LINE COUNT: 4006
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 30 OF 101 USPATFULL
ACCESSION NUMBER: 2001:108027 USPATFULL
TITLE: HIV-1P-17 peptide fragments, compositions containing and methods for producing and using same
INVENTOR(S): Zimmerman, Daniel H., Bethesda, MD, United States
Sarin, Prem S., Gaithersburg, MD, United States
PATENT ASSIGNEE(S): Viral Technologies INC, Vienna, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6258945	B1	20010710
APPLICATION INFO.:	US 2000-588751		20000607 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-824800, filed on 26 Mar 1997, now patented, Pat. No. US 6111068
Continuation-in-part of Ser. No. US 1996-695301, filed on 9 Aug 1996, now patented, Pat. No. US 6093400
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Stucker, Jeffrey
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1294
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 31 OF 101 USPATFULL
ACCESSION NUMBER: 2001:108018 USPATFULL
TITLE: SpoIIIE
INVENTOR(S): Hodgson, John Edward, Malvern, PA, United States
Chalker, Alison Frances, Collegeville, PA, United States
PATENT ASSIGNEE(S): SmithKline Beecham p.l.c., United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6258936	B1	20010710
APPLICATION INFO.:	US 1998-205048		19981204 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-785431, filed on 17 Jan 1997, now patented, Pat. No. US 5891667

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1996-955	19960117

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Navarro, Mark
ASSISTANT EXAMINER: Lee, Li
LEGAL REPRESENTATIVE: Gimmi, Edward R., Deibert, Thomas S., King, William T.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1423
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 32 OF 101 USPATFULL
ACCESSION NUMBER: 2001:86232 USPATFULL
TITLE: Testis-specific cystatin-like protein cystatin T
INVENTOR(S): Holloway, James L., Seattle, WA, United States
Feldhaus, Andrew L., Lynnwood, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6245529	B1	20010612
APPLICATION INFO.:	US 2000-617302		20000717 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-431480, filed on 1 Nov 1999

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-109217	19981120 (60)
	US 1999-156382	19990928 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Nashed, Nashaat T.
ASSISTANT EXAMINER: Fronda, Christian L.
LEGAL REPRESENTATIVE: Lingenfelter, Susan
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
LINE COUNT: 2653
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 33 OF 101 USPATFULL
ACCESSION NUMBER: 2001:79278 USPATFULL
TITLE: Disulfide core polypeptides
INVENTOR(S): Conklin, Darrell C., Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6239254	B1	20010529
APPLICATION INFO.:	US 1999-326039		19990604 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-88136	19980604 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nashed, Nashaat T.
ASSISTANT EXAMINER: Fronda, Christian L.
LEGAL REPRESENTATIVE: Lunn, Esq., Paul G.
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
LINE COUNT: 1914

L8 ANSWER 34 OF 101 USPATFULL
ACCESSION NUMBER: 2001:75361 USPATFULL
TITLE: Testis-specific cystatin-like protein cystatin T
INVENTOR(S): Holloway, James L., Seattle, WA, United States
Feldhaus, Andrew L., Lynnwood, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc, Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6235708	B1	20010522

APPLICATION INFO.: US 1999-431480 19991101 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-109217	19981120 (60)
	US 1999-156382	19990928 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nashed, Nashaat T.
ASSISTANT EXAMINER: Fronda, Christian L.
LEGAL REPRESENTATIVE: Lingenfelter, Susan
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
LINE COUNT: 2581
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 35 OF 101 USPATFULL
ACCESSION NUMBER: 2001:75188 USPATFULL
TITLE: Fluorescent energy transfer ligand interaction assay on a lipid film
INVENTOR(S): Keinanen, Kari, Espoo, Finland
Laukkanen, Marja-Leena, Turku, Finland
Soderlund, Hans, Espoo, Finland
PATENT ASSIGNEE(S): Valtion Teknillinen Tutkimuskeskus, Finland (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6235535	B1	20010522	
	WO 9800714		19980108	
APPLICATION INFO.:	US 1998-202976		19981224	(9)
	WO 1997-FI419		19970630	
			19981224	PCT 371 date
			19981224	PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	FI 1996-2686	19960628

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Le, Long V.
ASSISTANT EXAMINER: Padmanabhan, Kartic
LEGAL REPRESENTATIVE: Evenson, McKeown, Edwards & Lenahan, P.L.L.C.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 706
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 36 OF 101 USPATFULL
ACCESSION NUMBER: 2001:71679 USPATFULL
TITLE: Soluble MHC complexes and methods of use thereof
INVENTOR(S): Rhode, Peter R., Miami, FL, United States
Acevedo, Jorge, Miami, FL, United States
Burkhardt, Martin, Miami, FL, United States
Jiao, Jin-an, Fort Lauderdale, FL, United States
Wong, Hing C., Fort Lauderdale, FL, United States
PATENT ASSIGNEE(S): Sunol Molecular Corporation, Miramar, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6232445	B1	20010515	
APPLICATION INFO.:	US 1997-960190		19971029	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Saunders, David
ASSISTANT EXAMINER: DeCloux, Amy
LEGAL REPRESENTATIVE: Corless, Peter F., Buchanan, Robert L.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 32 Drawing Figure(s); 26 Drawing Page(s)
LINE COUNT: 3871
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 37 OF 101 USPATFULL
ACCESSION NUMBER: 2001:60036 USPATFULL
TITLE: Mammalian pro-apoptotic Bok genes and their uses
INVENTOR(S): Hsueh, Aaron J. W., Stanford, CA, United States
Hsu, Sheau Yu, Mountain View, CA, United States
PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6222017	B1	20010424
APPLICATION INFO.:	US 2000-517347		20000302 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-186250, filed on 4 Nov 1998, now patented, Pat. No. US 6043055

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-64943	19971107 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Schwartzman, Robert A.
LEGAL REPRESENTATIVE: Sherwood, Pamela J.Bozicevic, Field & Francis LLP
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1701
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 38 OF 101 USPATFULL
ACCESSION NUMBER: 2001:29788 USPATFULL
TITLE: Alteration of hemicellulose concentration in plants
INVENTOR(S): Dhugga, Kanwarpal S., Johnston, IA, United States
Nichols, Scott E., Johnston, IA, United States
Fallis, Patricia Lynne, Polk City, IA, United States
PATENT ASSIGNEE(S): Pioneer Hi-Bred International, Inc., Des Moines, IA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6194638	B1	20010227
APPLICATION INFO.:	US 1999-338671		19990622 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-90416	19980623 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fox, David T.
ASSISTANT EXAMINER: Ibrahim, Medina A
LEGAL REPRESENTATIVE: Pioneer Hi-Bred International, Inc.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1,11

LINE COUNT: 3616
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 39 OF 101 USPATFULL
ACCESSION NUMBER: 2001:25428 USPATFULL
TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases
INVENTOR(S): Kelley, Mark R., Zionsville, IN, United States
Duquid, John, Brownsburg, IN, United States
Eble, John, Indianapolis, IN, United States
PATENT ASSIGNEE(S): Advanced Research & Technology Institute, Bloomington, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190661	B1	20010220
APPLICATION INFO.:	US 1999-336890		19990618 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-872719, filed on 11 Jun 1997, now patented, Pat. No. US 5919643

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-19561	19960611 (60)
	US 1996-19602	19960611 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Fulbright & Jaworski
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 57 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 4568
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 40 OF 101 USPATFULL
ACCESSION NUMBER: 2001:18449 USPATFULL
TITLE: Cell death regulators
INVENTOR(S): Korsmeyer, Stanley J., Clayton, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6184202	B1	20010206
APPLICATION INFO.:	US 1997-927326		19970911 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-337646, filed on 10 Nov 1994, now patented, Pat. No. US 5856171
Continuation-in-part of Ser. No. US 1994-248819, filed on 25 May 1994, now patented, Pat. No. US 5700638
Continuation-in-part of Ser. No. US 1993-112208, filed on 26 Aug 1993, now patented, Pat. No. US 5691179

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Huff, Sheela
LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 69 Drawing Figure(s); 45 Drawing Page(s)
LINE COUNT: 4261
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 41 OF 101 USPATFULL
ACCESSION NUMBER: 2000:174374 USPATFULL
TITLE: Recombinant production of immunoglobulin-like domains

in prokaryotic cells
INVENTOR(S): Ward, E. Sally, Dallas, TX, United States
Kim, Jin-Kyoo, Irving, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6165745		20001226
APPLICATION INFO.:	US 1994-341560		19941117 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1992-963333, filed on 19 Oct 1992, now abandoned which is a continuation-in-part of Ser. No. US 1992-873930, filed on 24 Apr 1992, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Scheiner, Laurie
LEGAL REPRESENTATIVE: Fulbright & Jaworski, LLP
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 2962
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 42 OF 101 USPATFULL
ACCESSION NUMBER: 2000:174366 USPATFULL
TITLE: DNA fragmentation factor involved in apoptosis
INVENTOR(S): Wang, Xiaodong, Dallas, TX, United States
Liu, Xuesong, Dallas, TX, United States
PATENT ASSIGNEE(S): The University of Texas System Board of Regents, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6165737		20001226
APPLICATION INFO.:	US 1998-61702		19980416 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Fulbright & Jaworski L.L.P.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 5176
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 43 OF 101 USPATFULL
ACCESSION NUMBER: 2000:160817 USPATFULL
TITLE: Serine protease polypeptides and materials and methods for making them
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6153420		20001128
APPLICATION INFO.:	US 1998-72384		19980504 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-62142, filed on 17 Apr 1998, now abandoned

NUMBER	DATE

PRIORITY INFORMATION: US 1997-44185 19970424 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Parker, Gary E.
NUMBER OF CLAIMS: 24
EXEMPLARY CLAIM: 1
LINE COUNT: 2037
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 44 OF 101 USPATFULL
ACCESSION NUMBER: 2000:160799 USPATFULL
TITLE: Death domain containing receptors
INVENTOR(S): Yu, Guo-Liang, Darnestown, MD, United States
Ni, Jian, Rockville, MD, United States
Gentz, Reiner L., Silver Spring, MD, United States
Dillon, Patrick J., Gaithersburg, MD, United States
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6153402		20001128
APPLICATION INFO.:	US 1997-815469		19970311 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-13285	19960312 (60)
	US 1996-28711	19961017 (60)
	US 1997-37341	19970206 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ulm, John
LEGAL REPRESENTATIVE: Sterne, Kessler, Goldstein & Fox, P.L.L.C.
NUMBER OF CLAIMS: 61
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 3364
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 45 OF 101 USPATFULL
ACCESSION NUMBER: 2000:157631 USPATFULL
TITLE: Transgenic animals expressing artificial epitope-tagged proteins
INVENTOR(S): Prusiner, Stanley B., San Francisco, CA, United States
Telling, Glenn C., San Francisco, CA, United States
Cohen, Fred E., San Francisco, CA, United States
Scott, Michael R., San Francisco, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6150583		20001121
APPLICATION INFO.:	US 1998-31168		19980226 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-660626, filed on 6 Jun 1996, now patented, Pat. No. US 5789655 which is a continuation-in-part of Ser. No. US 1995-521992, filed on 31 Aug 1995, now patented, Pat. No. US 5908969 which is a continuation-in-part of Ser. No. US 1995-509261, filed on 31 Jul 1995, now patented, Pat. No. US 5763740 which is a continuation-in-part of Ser. No. US 1994-242188, filed on 13 May 1994, now patented, Pat.

No. US 5565186
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
LEGAL REPRESENTATIVE: Bozicevic, KarlBozicevic, Field & Francis LLP
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1472
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 46 OF 101 USPATFULL
ACCESSION NUMBER: 2000:150140 USPATFULL
TITLE: Lipocalin homologs
INVENTOR(S): Conklin, Darrell C., Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6143720		20001107
APPLICATION INFO.:	US 1999-432335		19991102 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-130663, filed on 6 Aug 1998, now patented, Pat. No. US 6020163

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-54867	19970806 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
ASSISTANT EXAMINER: Srivastava, Devesh
LEGAL REPRESENTATIVE: Sawislak, Deborah A.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 2649
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 47 OF 101 USPATFULL
ACCESSION NUMBER: 2000:146351 USPATFULL
TITLE: Hereditary hemochromatosis gene products
INVENTOR(S): Thomas, Winston J., San Mateo, CA, United States
Drayna, Dennis T., Bethesda, MD, United States
Feder, John N., Mountain View, CA, United States
Gnirke, Andreas, San Carlos, CA, United States
Ruddy, David, San Francisco, CA, United States
Tsuchihashi, Zenta, Menlo Park, CA, United States
Wolff, Roger K., Mill Valley, CA, United States
PATENT ASSIGNEE(S): Bio-Rad Laboratories, Inc., Hercules, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6140305		20001031
APPLICATION INFO.:	US 1997-834497		19970404 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-630912, filed on 4 Apr 1996, now abandoned And a continuation-in-part of Ser. No. US 1996-632673, filed on 16 Apr 1996, now patented, Pat. No. US 5712098 And a continuation-in-part of Ser. No. US 1996-652265, filed on 23 May 1996, now patented, Pat. No. US 6025130
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Saunders, David
ASSISTANT EXAMINER: Tung, Mary B.
LEGAL REPRESENTATIVE: Pennie & Edmonds LLP
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 8
NUMBER OF DRAWINGS: 22 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 6106
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 48 OF 101 USPATFULL
ACCESSION NUMBER: 2000:146130 USPATFULL
TITLE: Human thyroid protein zsig45
INVENTOR(S): Deisher, Theresa A., Seattle, WA, United States
Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6140084		20001031
APPLICATION INFO.:	US 1998-203623		19981201 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-67263	19971203 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
ASSISTANT EXAMINER: Schnizer, Holly
LEGAL REPRESENTATIVE: Johnson, Jennifer K.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
LINE COUNT: 3515
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 49 OF 101 USPATFULL
ACCESSION NUMBER: 2000:131634 USPATFULL
TITLE: Human prohormone convertase 4
INVENTOR(S): Lok, Si, Seattle, WA, United States
Jaspers, Stephen R., Edmonds, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6127162		20001003
APPLICATION INFO.:	US 1999-369617		19990806 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-71101, filed on 1 May 1998, now patented, Pat. No. US 6013503		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-44015	19970506 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
ASSISTANT EXAMINER: Srivastava, Devesh
LEGAL REPRESENTATIVE: Johnson, Jennifer K.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2424
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 50 OF 101 USPATFULL
ACCESSION NUMBER: 2000:131631 USPATFULL
TITLE: Mitofusin genes and their uses
INVENTOR(S): Fuller, Margaret T., Stanford, CA, United States
Hales, Karen G., Durham, NC, United States
PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6127159		20001003
APPLICATION INFO.:	US 1998-90808		19980604 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-48961	19970606 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Achutamurthy, Ponnathapu
ASSISTANT EXAMINER: Rao, Manjunath N.
LEGAL REPRESENTATIVE: Sherwood, Pamela J.Bozicevic, Field & Francis
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1864
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 51 OF 101 USPATFULL
ACCESSION NUMBER: 2000:124823 USPATFULL
TITLE: Human Delta3 nucleic acid molecules
INVENTOR(S): McCarthy, Sean Anthony, Boston, MA, United States
Gearing, David Paul, Wellesley, MA, United States
PATENT ASSIGNEE(S): Millennium Biotherapeutics, Inc., Cambridge, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6121045		20000919
APPLICATION INFO.:	US 1997-872855		19970611 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-832633, filed on 4 Apr 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Foley, Hoag & Eliot, LLP, Arnold, Esq., Beth E., Clauss, Ph.D., Isabelle M.
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 5656
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 52 OF 101 USPATFULL
ACCESSION NUMBER: 2000:124777 USPATFULL
TITLE: **Histidine** kinase two-component in Candida albicans
INVENTOR(S): Abad, Antonio Jose C., Washington, DC, United States
Choi, Gil H., Rockville, MD, United States
Calderone, Richard A., Washington, DC, United States
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)
The Georgetown University, Washington, DC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6120999		20000919
APPLICATION INFO.:	US 1998-112450		19980709 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-52273	19970710 (60)
	US 1998-74308	19980211 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Myers, Carla J.
ASSISTANT EXAMINER: Johannsen, Diana
LEGAL REPRESENTATIVE: Hoover, Kenley K.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 5
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 3683
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 53 OF 101 USPATFULL
ACCESSION NUMBER: 2000:121286 USPATFULL
TITLE: Bioluminescent bioreporter integrated circuit
INVENTOR(S): Simpson, Michael L., Knoxville, TN, United States
Sayler, Gary S., Blaine, TN, United States
Paulus, Michael J., Knoxville, TN, United States
PATENT ASSIGNEE(S): UT Battelle, LLC, Oak Ridge, TX, United States (U.S. corporation)
The University of Tennessee Research Corp., Knoxville, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6117643		20000912
APPLICATION INFO.:	US 1997-978439		19971125 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Chin, Christopher L.
LEGAL REPRESENTATIVE: Williams, Morgan & Amerson, P.C.
NUMBER OF CLAIMS: 32
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 43 Drawing Figure(s); 39 Drawing Page(s)
LINE COUNT: 5414
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 54 OF 101 USPATFULL
ACCESSION NUMBER: 2000:114101 USPATFULL
TITLE: Protese-activated receptor PAR4 (ZCHEMR2)
INVENTOR(S): Xu, Wen-feng, Mukilteo, WA, United States
Presnell, Scott R., Seattle, WA, United States
Yee, David P., Seattle, WA, United States
Foster, Donald C., Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6111075		20000829
APPLICATION INFO.:	US 1998-53866		19980401 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ulm, John
LEGAL REPRESENTATIVE: Leith, Debra K., Jones, Phillip B. C.

NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 2395
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 55 OF 101 USPATFULL
ACCESSION NUMBER: 2000:114094 USPATFULL
TITLE: HIV-1 p-17 peptide fragments, compositions containing and methods for producing and using same
INVENTOR(S): Zimmerman, Daniel H., Bethesda, MD, United States
Sarin, Prem S., Gaithersburg, MD, United States
PATENT ASSIGNEE(S): Viral Technologies, Inc., Vienna, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6111068		20000829
APPLICATION INFO.:	US 1997-824800		19970326 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-695301, filed on 9 Aug 1996
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Stucker, Jeffrey
LEGAL REPRESENTATIVE: Sherman & Shalloway
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1882
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 56 OF 101 USPATFULL
ACCESSION NUMBER: 2000:105424 USPATFULL
TITLE: Modified HGP-30 heteroconjugates, compositions and methods of use
INVENTOR(S): Zimmerman, Daniel H., Bethesda, MD, United States
Sarin, Prem S., Gaithersburg, MD, United States
PATENT ASSIGNEE(S): CEL-SCI Corporation, Vienna, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6103239		20000815
APPLICATION INFO.:	US 1996-695304		19960809 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Stucker, Jeffrey
LEGAL REPRESENTATIVE: Shelman & Shalloway
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
LINE COUNT: 1879
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 57 OF 101 USPATFULL
ACCESSION NUMBER: 2000:102074 USPATFULL
TITLE: Human prohormone convertase 4
INVENTOR(S): Lok, Si, Seattle, WA, United States
Jaspers, Stephen R., Edmonds, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6100041		20000808

APPLICATION INFO.: US 1999-369618 19990806 (9)
RELATED APPLN. INFO.: Division of Ser. No. US 1998-71101, filed on 1 May 1998, now patented, Pat. No. US 6013503

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-44015	19970506 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Carlson, Karen Cochrane
ASSISTANT EXAMINER: Srivastava, Devesh
LEGAL REPRESENTATIVE: Johnson, Jennifer K.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2339
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 58 OF 101 USPATFULL
ACCESSION NUMBER: 2000:87952 USPATFULL
TITLE: Human E3 ubiquitin protein ligase
INVENTOR(S): Hustad, Carolyn Marziasz, Wilmington, DE, United States
Ghildyal, Namit, Kennett Square, PA, United States
PATENT ASSIGNEE(S): Zeneca Limited, London, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6087122		20000711
APPLICATION INFO.:	US 1999-357746		19990721 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-70060, filed on 30 Apr 1998, now patented, Pat. No. US 5976849

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-73839	19980205 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Elliott, George C.
ASSISTANT EXAMINER: Lacourciere, Karen A
LEGAL REPRESENTATIVE: Higgins, Esq., Patrick H.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 2448
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 59 OF 101 USPATFULL
ACCESSION NUMBER: 2000:84424 USPATFULL
TITLE: Polynucleotides encoding novel tumor antigens
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
Grossmann, Angelika, Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6084088		20000704
APPLICATION INFO.:	US 1998-73569		19980506 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-45703	19970506 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted
PRIMARY EXAMINER: Burke, Julie
ASSISTANT EXAMINER: Helms, Larry R
LEGAL REPRESENTATIVE: Sawislak, Deborah A.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 2612
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 60 OF 101 USPATFULL
ACCESSION NUMBER: 2000:80408 USPATFULL
TITLE: Compositions for the prevention and treatment of verotoxin-induced disease
INVENTOR(S): Williams, James A., Lincoln, NE, United States
Byrne, Lisa Marie, Stoughton, WI, United States
PATENT ASSIGNEE(S): Ophidian Pharmaceuticals, Inc., Wisconsin, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6080400		20000627
APPLICATION INFO.:	US 1997-816977		19970313 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-410058, filed on 24 Mar 1995, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Devi, S.
LEGAL REPRESENTATIVE: Medlen & Carroll, LLP
NUMBER OF CLAIMS: 2
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 5468
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 61 OF 101 USPATFULL
ACCESSION NUMBER: 2000:37612 USPATFULL
TITLE: Mammalian pro-apoptotic Bok genes and their uses
INVENTOR(S): Hsueh, Aaron J. W., Stanford, CA, United States
Hsu, Sheau Yu, Mountain View, CA, United States
PATENT ASSIGNEE(S): The Board of Trustees of the Leland Stanford Junior University, Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6043055		20000328
APPLICATION INFO.:	US 1998-186250		19981104 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-64943	19971107 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Schwartzman, Robert A.
LEGAL REPRESENTATIVE: Bozicevic, Field & Francis LLP, Sherwood, Pamela
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2001
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 62 OF 101 USPATFULL

ACCESSION NUMBER: 2000:18630 USPATFULL
TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof
INVENTOR(S): Lundquist, Ronald C., Minnetonka, MN, United States
Walters, David A., Groton, CT, United States
Spencer, T. Michael, Mystic, CT, United States
Mackey, Catherine J., Old Lyme, CT, United States
PATENT ASSIGNEE(S): Dekalb Genetics Corporation, Dekalb, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6025545		20000215
APPLICATION INFO.:	US 1995-440689		19950515 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-112245, filed on 25 Aug 1993 which is a continuation-in-part of Ser. No. US 1990-636089, filed on 28 Dec 1990, now abandoned which is a continuation-in-part of Ser. No. US 1990-508045, filed on 11 Apr 1990, now patented, Pat. No. US 5484956 which is a continuation-in-part of Ser. No. US 1990-467983, filed on 22 Jan 1990, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Benzion, Gary
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth, P.A.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 45 Drawing Figure(s); 52 Drawing Page(s)
LINE COUNT: 9943
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 63 OF 101 USPATFULL
ACCESSION NUMBER: 2000:18283 USPATFULL
TITLE: Secreted salivary zsig32 polypeptides
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6025197		20000215
APPLICATION INFO.:	US 1998-40786		19980318 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-41263	19970319 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Lingenfelter, Susan E.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 3096
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 64 OF 101 USPATFULL
ACCESSION NUMBER: 2000:18280 USPATFULL
TITLE: Nucleic acid sequence of senescence asssociated gene
INVENTOR(S): Funk, Walter, Hayward, CA, United States
PATENT ASSIGNEE(S): Geron Corporation, Menlo Park, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6025194		20000215
APPLICATION INFO.:	US 1997-974180		19971119 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Huff, Sheela
ASSISTANT EXAMINER: Bansal, Geetha P.
LEGAL REPRESENTATIVE: Earp, David J., Kaster, Kevin
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1,6
LINE COUNT: 4667
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 65 OF 101 USPATFULL
ACCESSION NUMBER: 2000:15623 USPATFULL
TITLE: Secreted salivary zsig32 polypeptides
INVENTOR(S): Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6022847		20000208
APPLICATION INFO.:	US 1998-81180		19980519 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-40786, filed on 18 Mar 1998

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-41263	19970319 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Brusca, John S.
LEGAL REPRESENTATIVE: Lingenfelter, Susan E.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 3052
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 66 OF 101 USPATFULL
ACCESSION NUMBER: 2000:12626 USPATFULL
TITLE: Lipocalin homolog
INVENTOR(S): Conklin, Darrell C., Seattle, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6020163		20000201
APPLICATION INFO.:	US 1998-130663		19980806 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-54867	19970806 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sisson, Bradley
ASSISTANT EXAMINER: Srivastava, Devesh
LEGAL REPRESENTATIVE: Sawislak, Deborah A.
NUMBER OF CLAIMS: 8
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 2645

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 67 OF 101 USPATFULL

ACCESSION NUMBER:	2000:12606 USPATFULL
TITLE:	Method for identifying substances that affect the interaction of a presenilin-1-interacting protein with a mammalian presenilin-1 protein
INVENTOR(S):	St. George-Hyslop, Peter H., Toronto, Canada Rommens, Johanna M., Toronto, Canada Fraser, Paul E., Toronto, Canada
PATENT ASSIGNEE(S):	Research and Development Limited Partnership, Toronto, Canada (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6020143		20000201
APPLICATION INFO.:	US 1997-888077		19970703 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-592541, filed on 26 Jan 1996		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-21673	19960705 (60)
	US 1996-21700	19960712 (60)
	US 1996-29895	19961108 (60)
	US 1997-34590	19970102 (60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Cochrane Carlson, Karen
LEGAL REPRESENTATIVE:	Darby & Darby
NUMBER OF CLAIMS:	7
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT:	7847

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 68 OF 101 USPATFULL

ACCESSION NUMBER:	2000:9709 USPATFULL
TITLE:	Positive and positive/negative cell selection mediated by peptide release
INVENTOR(S):	Tseng-Law, Janet, Whitter, CA, United States Kobori, Joan A., Pasadena, CA, United States Al-Abdaly, Fahad A., Torrance, CA, United States Guillermo, Roy, Carson, CA, United States Helgerson, Sam L., Pasadena, CA, United States Deans, Robert J., Claremont, CA, United States
PATENT ASSIGNEE(S):	Nexell Therapeutics, Inc., Irvine, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6017719		20000125
APPLICATION INFO.:	US 1995-482528		19950607 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-259427, filed on 14 Jun 1994, now abandoned		

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Green, Lora M.
LEGAL REPRESENTATIVE:	Campbell & Flores LLP
NUMBER OF CLAIMS:	16
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT:	4541

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 69 OF 101 USPATFULL
ACCESSION NUMBER: 2000:4666 USPATFULL
TITLE: Human prohormone convertase 4
INVENTOR(S): Lok, Si, Seattle, WA, United States
Jaspers, Stephen R., Edmonds, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6013503		20000111
APPLICATION INFO.:	US 1998-71101		19980501 (9)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Campbell, Eggerton A.
ASSISTANT EXAMINER: Srivastava, Devesh
LEGAL REPRESENTATIVE: Johnson, Jennifer K.
NUMBER OF CLAIMS: 3
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 1 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2309
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 70 OF 101 USPATFULL
ACCESSION NUMBER: 1999:163474 USPATFULL
TITLE: Ubiquitin ligases, and uses related thereto
INVENTOR(S): Beach, David, Huntington Bay, NY, United States
Caligiuri, Maureen G., Huntington, NY, United States
Nefsky, Bradley, Highland Park, NJ, United States
PATENT ASSIGNEE(S): Cold Spring Harbor Laboratory, Cold Spring Harbor, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6001619		19991214
APPLICATION INFO.:	US 1995-539205		19951004 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Prouty, Rebecca E.
LEGAL REPRESENTATIVE: Foley, Hoag & Eliot, LLP, Vincent, Matthew P., Varma, Anita
NUMBER OF CLAIMS: 33
EXEMPLARY CLAIM: 1
LINE COUNT: 4765
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 71 OF 101 USPATFULL
ACCESSION NUMBER: 1999:151490 USPATFULL
TITLE: Methods and compositions for the production of stably transformed, fertile monocot plants and cells thereof
INVENTOR(S): Lundquist, Ronald C., Minnetonka, MN, United States
Walters, David A., Groton, CT, United States
Kirihara, Julie A., Bloomington, MN, United States
PATENT ASSIGNEE(S): Dekalb Genetics Corporation, Dekalb, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5990390		19991123
APPLICATION INFO.:	US 1996-622740		19960327 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-112245, filed on 25 Aug 1993 which is a continuation-in-part of Ser. No. US 1990-636089, filed on 28 Dec 1990 which is a

continuation-in-part of Ser. No. US 1990-508045, filed on 11 Apr 1990, now patented, Pat. No. US 5484956 which is a continuation-in-part of Ser. No. US 1990-467989, filed on 22 Jan 1990, now patented, Pat. No. US 5081396

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Benzion, Gary
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner, and Kluth, P.A.
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 55 Drawing Figure(s); 52 Drawing Page(s)
LINE COUNT: 9441
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 72 OF 101 USPATFULL
ACCESSION NUMBER: 1999:150969 USPATFULL
TITLE: FGF homologs
INVENTOR(S): Deisher, Theresa A., Seattle, WA, United States
Conklin, Darrell C., Seattle, WA, United States
Raymond, Fenella, Seattle, WA, United States
Bukowski, Thomas R., Seattle, WA, United States
Holderman, Susan D., Kirkland, WA, United States
Hansen, Birgit, Seattle, WA, United States
Sheppard, Paul O., Redmond, WA, United States
PATENT ASSIGNEE(S): ZymoGenetics, Inc., Seattle, WA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5989866		19991123
APPLICATION INFO.:	US 1997-951822		19971016 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-28646	19961016 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Ulm, John
ASSISTANT EXAMINER: Saoud, Christine
LEGAL REPRESENTATIVE: Sawislak, Deborah A.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 2660
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 73 OF 101 USPATFULL
ACCESSION NUMBER: 1999:146531 USPATFULL
TITLE: Compositions and methods of use for osteoclast inhibitor factors
INVENTOR(S): Roodman, G. David, San Antonio, TX, United States
Reddy, Sakamuri V., San Antonio, TX, United States
Choi, Sun-Jin, San Antonio, TX, United States
PATENT ASSIGNEE(S): Board of Regents, The University of Texas System, Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5985832		19991116
APPLICATION INFO.:	US 1998-139424		19980825 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1996-772441, filed on 20 Dec 1996
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted

PRIMARY EXAMINER: Huff, Sheela
LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 17 Drawing Page(s)
LINE COUNT: 3296
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 74 OF 101 USPATFULL
ACCESSION NUMBER: 1999:136998 USPATFULL
TITLE: Human E3 ubiquitin protein ligase
INVENTOR(S): Hustad, Carolyn Marziasz, Wilmington, DE, United States
Ghildyal, Namit, Kennett Square, PA, United States
PATENT ASSIGNEE(S): Zeneca Limited, London, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5976849		19991102
APPLICATION INFO.:	US 1998-70060		19980430 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-73839	19980205 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: LeGuyader, John L.
ASSISTANT EXAMINER: Shibuya, Mark L.
LEGAL REPRESENTATIVE: Higgins, Esq., Patrick H.
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 15 Drawing Page(s)
LINE COUNT: 2634
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 75 OF 101 USPATFULL
ACCESSION NUMBER: 1999:128369 USPATFULL
TITLE: Positive and positive/negative cell selection mediated by peptide release
INVENTOR(S): Tseng-Law, Janet, Whitter, CA, United States
Kobori, Joan A., Pasadena, CA, United States
Al-Abdaly, Fahad A., Torrance, CA, United States
Guillermo, Roy, Carson, CA, United States
Helgerson, Sam L., Pasadena, CA, United States
Deans, Robert J., Claremont, CA, United States
PATENT ASSIGNEE(S): Nexell Therapeutics, Inc., Irvine, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5968753		19991019
APPLICATION INFO.:	US 1995-482228		19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-259427, filed on 14 Jun 1994, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Green, Lora M.
ASSISTANT EXAMINER: Ricigliano, Joseph W.
LEGAL REPRESENTATIVE: Campbell & Flores, LLP
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 4650
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 76 OF 101 USPATFULL
ACCESSION NUMBER: 1999:113880 USPATFULL
TITLE: Cell death regulators
INVENTOR(S): Korsmeyer, Stanley J., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5955595		19990921
APPLICATION INFO.:	US 1997-856034		19970514 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1993-112208, filed on 26 Aug 1993, now patented, Pat. No. US 5691179
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugaisky, Gabriele E.
LEGAL REPRESENTATIVE: Howell & Haferkamp, LC
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Figure(s); 25 Drawing Page(s)
LINE COUNT: 3349
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 77 OF 101 USPATFULL
ACCESSION NUMBER: 1999:99638 USPATFULL
TITLE: Cell death regulators
INVENTOR(S): Korsmeyer, Stanley J., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5942490		19990824
APPLICATION INFO.:	US 1997-856531		19970514 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1993-112208, filed on 26 Aug 1993, now patented, Pat. No. US 5691179
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugaisky, Gabriele E.
LEGAL REPRESENTATIVE: Howell & Haferkamp, LC
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Figure(s); 25 Drawing Page(s)
LINE COUNT: 3449
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 78 OF 101 USPATFULL
ACCESSION NUMBER: 1999:89002 USPATFULL
TITLE: Compositions and methods for modulating cellular NF-.kappa.B activation
INVENTOR(S): Alkalay, Irit, Jerusalem, Israel
Ben-Neriah, Yinon, Zion, Israel
Ciechanover, Aaron, Haifa, Israel
Manning, Anthony, San Diego, CA, United States
Mercurio, Frank, San Diego, CA, United States
Yaron, Avraham, Jerusalem, Israel
PATENT ASSIGNEE(S): Signal Pharmaceuticals, Inc., San Diego, CA, United States (U.S. corporation)
Yissum Research Development Company of the Hebrew University of Jerusalem, Jerusalem, Israel (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5932425		19990803
APPLICATION INFO.:	US 1997-802322		19970218 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Degen, Nancy
LEGAL REPRESENTATIVE: Seed and Berry LLP
NUMBER OF CLAIMS: 7
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 1321
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 79 OF 101 USPATFULL
ACCESSION NUMBER: 1999:75500 USPATFULL
TITLE: Methods and compositions for the use of apurinic/apyrimidinic endonucleases
INVENTOR(S): Kelley, Mark R., Zionsville, IN, United States
Duguid, John, Brownsburg, IN, United States
Eble, John, Indianapolis, IN, United States
PATENT ASSIGNEE(S): Advanced Research & Technology Institute, Bloomington, IN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5919643		19990706
APPLICATION INFO.:	US 1997-872719		19970611 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-19561	19960611 (60)
	US 1996-19602	19960611 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 57 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 4677
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 80 OF 101 USPATFULL
ACCESSION NUMBER: 1999:43415 USPATFULL
TITLE: SpoIIIe polynucleotides
INVENTOR(S): Hodgson, John Edward, Malvern, PA, United States
Chalker, Alison Frances, Collegeville, PA, United States
PATENT ASSIGNEE(S): SmithKline Beecham, p.l.c., United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5891667		19990406
APPLICATION INFO.:	US 1997-785431		19970117 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 1996-955	19960117

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Hutzell, Paula K.

ASSISTANT EXAMINER: Masood, Khalid
LEGAL REPRESENTATIVE: Gimmi, Edward R., King, William T., Jackson, Arthur E.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1633
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 81 OF 101 USPATFULL
ACCESSION NUMBER: 1999:40580 USPATFULL
TITLE: Recombinant neospora antigens and their uses
INVENTOR(S): Conrad, Patricia A., Davis, CA, United States
Barr, Bradd C., Davis, CA, United States
Anderson, Mark L., Davis, CA, United States
Sverlow, Karen W., Vacaville, CA, United States
Louie, Kitland, Davis, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5889166		19990330
APPLICATION INFO.:	US 1996-645951		19960510 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Caputa, Anthony C.
ASSISTANT EXAMINER: Navarro, Mark
LEGAL REPRESENTATIVE: Townsend and Townsend and Crew LLP
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1991
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 82 OF 101 USPATFULL
ACCESSION NUMBER: 1999:24504 USPATFULL
TITLE: Mammalian flap-specific endonuclease
INVENTOR(S): Harrington, John Joseph, 13700 Fairhill Rd. #514, Shaker Heights, OH, United States 44120
Hsieh, Chih-Lin, 11616 Clayton Rd., St. Louis, MO, United States 63131
Lieber, Michael R., 11616 Clayton Rd., St. Louis, MO, United States 63131
PATENT ASSIGNEE(S): Harrington, John Joseph, Cleveland, OH, United States (U.S. individual)
Lieber, Michael R., Arcadia, CA, United States (U.S. individual)
Hsieh, Chih-Lin, Arcadia, CA, United States (U.S. individual)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5874283		19990223
APPLICATION INFO.:	US 1995-455968		19950530 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Saidha, Tekchand
LEGAL REPRESENTATIVE: Townsend & Townsend & Crew
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 12 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT: 3891
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 83 OF 101 USPATFULL
ACCESSION NUMBER: 1999:18939 USPATFULL
TITLE: Single chain MHC complexes and uses thereof
INVENTOR(S): Rhode, Peter R., Miami, FL, United States
Jiao, Jin-An, Fort Lauderdale, FL, United States
Burkhardt, Martin, Miami, FL, United States
Wong, Hing C., Fort Lauderdale, FL, United States
PATENT ASSIGNEE(S): Sunol Molecular Corporation, Miami, FL, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5869270		19990209	
APPLICATION INFO.:	US 1996-596387		19960131	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Walsh, Stephen
ASSISTANT EXAMINER: Brown, Karen E.
LEGAL REPRESENTATIVE: Corless, Peter F., Buchanan, Robert L.Dike, Bronstein, Roberts & Cushman, LLP
NUMBER OF CLAIMS: 38
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 82 Drawing Figure(s); 69 Drawing Page(s)
LINE COUNT: 4930
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 84 OF 101 USPATFULL
ACCESSION NUMBER: 1999:7253 USPATFULL
TITLE: Treatment of diabetes mellitus and insulin receptor signal transduction
INVENTOR(S): Ullrich, Axel, Munchen, Germany, Federal Republic of
Lammers, Reiner, Munchen, Germany, Federal Republic of
Kharitonenkov, Alexei Igorevich, Munchen, Germany, Federal Republic of
Sap, Jan M., New York, NY, United States
Schlessinger, Joseph, New York, NY, United States
PATENT ASSIGNEE(S): New York University, New York, NY, United States (U.S. corporation)
Max-Planck-Gesellschaft zur Forderung der Wissenshaften e.V., Munich, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5861266		19990119	
APPLICATION INFO.:	US 1994-203189		19940228	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Rollins, John W.
LEGAL REPRESENTATIVE: Pennie & Edmonds LLP
NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 16 Drawing Figure(s); 11 Drawing Page(s)
LINE COUNT: 1716
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 85 OF 101 USPATFULL
ACCESSION NUMBER: 1999:4437 USPATFULL
TITLE: Methods and reagents for regulating telomere length and telomerase activity
INVENTOR(S): Villeponteau, Bryant, San Carlos, CA, United States
Feng, Junli, San Carlos, CA, United States
Andrews, William H., Richmond, CA, United States

Adams, Robert R., Redwood City, CA, United States
PATENT ASSIGNEE(S): Geron Corporation, Menlo Park, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5858777		19990112
APPLICATION INFO.:	US 1996-710249		19960913 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1996-583808, filed on 5 Jan 1996, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	US 1995-3492	19950908 (60)
	US 1995-8949	19951020 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Saidha, Tekchand
LEGAL REPRESENTATIVE: Kaster, Kevin R.
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 22 Drawing Page(s)
LINE COUNT: 2766
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 86 OF 101 USPATFULL
ACCESSION NUMBER: 1999:1508 USPATFULL
TITLE: Cell death regulators
INVENTOR(S): Korsmeyer, Stanley J., Clayton, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856171		19990105
APPLICATION INFO.:	US 1994-337646		19941110 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-248819, filed on 25 May 1994, now patented, Pat. No. US 5700638 which is a continuation-in-part of Ser. No. US 1993-112208, filed on 26 Aug 1993, now patented, Pat. No. US 5691179
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Myers, Carla J.
LEGAL REPRESENTATIVE: Howell & Haferkamp,L.C.
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 10
NUMBER OF DRAWINGS: 70 Drawing Figure(s); 45 Drawing Page(s)
LINE COUNT: 4797
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 87 OF 101 USPATFULL
ACCESSION NUMBER: 1999:1450 USPATFULL
TITLE: Methods for identifying modulators of insulin receptor phosphorylation
INVENTOR(S): Ullrich, Axel, Munchen, Germany, Federal Republic of
Hoppe, Edmund, Krailling, Germany, Federal Republic of
M.o slashed.ller, Niels Peter Hundahl, Munchen, Germany, Federal Republic of
PATENT ASSIGNEE(S): Max-Planck-Gessellschaft Zur Forderung der Wissenschaften E.V., Munich, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856111		19990105
APPLICATION INFO.:	US 1996-751900		19961118 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1994-203218, filed on 28 Feb 1994, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Teng, Sally P.
LEGAL REPRESENTATIVE: Pennie & Edmonds LLP
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 8 Drawing Figure(s); 5 Drawing Page(s)
LINE COUNT: 1008
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 88 OF 101 USPATFULL
ACCESSION NUMBER: 1998:159731 USPATFULL
TITLE: Tie ligand-3, methods of making and uses thereof
INVENTOR(S): Valenzuela, David M., Franklin Square, NY, United States
Jones, Pamela F., Fairfield, CT, United States
Yancopoulos, George D., Yorktown Heights, NY, United States
PATENT ASSIGNEE(S): Regeneron Pharmaceuticals, Inc., Tarrytown, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5851797		19981222
APPLICATION INFO.:	US 1996-665926		19960619 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Spector, Lorraine M.
ASSISTANT EXAMINER: Kaufman, Claire M.
LEGAL REPRESENTATIVE: Cobert, Robert J.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 31 Drawing Figure(s); 23 Drawing Page(s)
LINE COUNT: 2727
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 89 OF 101 USPATFULL
ACCESSION NUMBER: 1998:147547 USPATFULL
TITLE: Technique for joining amino acid sequences and novel composition useful in immunoassays
INVENTOR(S): Peterson, Darrell, Chesterfield, VA, United States
PATENT ASSIGNEE(S): Virginia Commonwealth University, Richmond, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5840834		19981124
APPLICATION INFO.:	US 1994-360360		19941221 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.
ASSISTANT EXAMINER: Stucker, Jeffrey
LEGAL REPRESENTATIVE: Whitham, Curtis, Whitham & McGinn
NUMBER OF CLAIMS: 19
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 685
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 90 OF 101 USPATFULL
ACCESSION NUMBER: 1998:138690 USPATFULL
TITLE: Modified proteins comprising controllable intervening protein sequences or their elements methods of producing same and methods for purification of a target protein comprised by a modified protein
INVENTOR(S): Comb, Donald G., Manchester, MA, United States
Perler, Francine B., Brookline, MA, United States
Jack, William E., Wenham, MA, United States
Xu, Ming-Qun, Hamilton, MA, United States
Hodges, Robert A., Norcross, GA, United States
Noren, Christopher J., Boxford, MA, United States
Chong, Shaorong S. C., Beverly, MA, United States
Adam, Eric, Beverly, MA, United States
Southworth, Maurice, Beverly, MA, United States
PATENT ASSIGNEE(S): New England Biolabs, Inc., Beverly, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5834247		19981110
APPLICATION INFO.:	US 1997-811492		19970305 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-580555, filed on 29 Dec 1995, now abandoned which is a continuation-in-part of Ser. No. US 1995-496247, filed on 28 Jun 1995, now abandoned which is a continuation-in-part of Ser. No. US 1993-146885, filed on 3 Nov 1993, now abandoned which is a continuation-in-part of Ser. No. US 1992-4139, filed on 9 Dec 1992, now patented, Pat. No. US 5496714, issued on 5 Mar 1996
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Williams, Gregory D.
NUMBER OF CLAIMS: 103
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 45 Drawing Figure(s); 35 Drawing Page(s)
LINE COUNT: 6946
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 91 OF 101 USPATFULL
ACCESSION NUMBER: 1998:138654 USPATFULL
TITLE: Bcl-x/bcl-2 associated cell death regulator
INVENTOR(S): Korsmeyer, Stanley J., Clayton, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5834209		19981110
APPLICATION INFO.:	US 1996-661479		19960610 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-333565, filed on 31 Oct 1994, now patented, Pat. No. US 5622852 which is a continuation-in-part of Ser. No. US 1994-248819, filed on 25 May 1994, now patented, Pat. No. US 5700638 which is a continuation-in-part of Ser. No. US 1993-112208, filed on 26 Aug 1993, now patented, Pat. No. US 5691179
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugaisky, Gabriele E.
LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 34 Drawing Figure(s); 24 Drawing Page(s)
LINE COUNT: 3791
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 92 OF 101 USPATFULL
ACCESSION NUMBER: 1998:104803 USPATFULL
TITLE: Nucleic acid compositions encoding acetyl-coa carboxylase and uses therefor
INVENTOR(S): Haselkorn, Robert, Chicago, IL, United States
Gornicki, Piotr, Chicago, IL, United States
PATENT ASSIGNEE(S): Arch Development Corporation, Chicago, IL, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5801233		19980901
APPLICATION INFO.:	US 1996-611107		19960305 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-422560, filed on 14 Apr 1995 which is a continuation-in-part of Ser. No. US 1992-956700, filed on 2 Oct 1992, now patented, Pat. No. US 5539092
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Campell, Bruce R.
LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 43
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 21 Drawing Figure(s); 21 Drawing Page(s)
LINE COUNT: 5674
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 93 OF 101 USPATFULL
ACCESSION NUMBER: 1998:92267 USPATFULL
TITLE: Transgenic animals expressing artificial epitope-tagged proteins
INVENTOR(S): Prusiner, Stanley B., San Francisco, CA, United States
Telling, Glenn C., San Francisco, CA, United States
Cohen, Fred E., San Francisco, CA, United States
Scott, Michael R., San Francisco, CA, United States
PATENT ASSIGNEE(S): The Regents of the University of California, Alameda, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5789655		19980804
APPLICATION INFO.:	US 1996-660626		19960606 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-521992, filed on 31 Aug 1995 which is a continuation-in-part of Ser. No. US 1995-509261, filed on 31 Jul 1995 which is a continuation-in-part of Ser. No. US 1994-242188, filed on 13 May 1994, now patented, Pat. No. US 5565186, issued on 15 Aug 1996
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Chambers, Jasemine C.
ASSISTANT EXAMINER: Clark, Deborah J. R.
LEGAL REPRESENTATIVE: Bozicevic & Reed LLP, Bozicevic, Esq., Karl
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1409
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 94 OF 101 USPATFULL
ACCESSION NUMBER: 97:120456 USPATFULL
TITLE: Cell death regulator
INVENTOR(S): Korsmeyer, Stanley J., Clayton, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5700638		19971223
APPLICATION INFO.:	US 1994-248819		19940525 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-112208, filed on 26 Aug 1993, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugaisky, Gabriele E.
LEGAL REPRESENTATIVE: Dunn, Tracy J.
NUMBER OF CLAIMS: 21
EXEMPLARY CLAIM: 21
NUMBER OF DRAWINGS: 59 Drawing Figure(s); 35 Drawing Page(s)
LINE COUNT: 4034
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 95 OF 101 USPATFULL
ACCESSION NUMBER: 97:109743 USPATFULL
TITLE: Cell death regulators
INVENTOR(S): Korsmeyer, Stanley J., St. Louis, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5691179		19971125
APPLICATION INFO.:	US 1993-112208		19930826 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugaisky, G. E.
LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 42 Drawing Figure(s); 25 Drawing Page(s)
LINE COUNT: 3233
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 96 OF 101 USPATFULL
ACCESSION NUMBER: 97:91340 USPATFULL
TITLE: Immunoassay technique using **histidine** tags, metals, and chelating agents
INVENTOR(S): Peterson, Darrell L., Chesterfield, VA, United States
PATENT ASSIGNEE(S): The Center for Innovative Technology, Herndon, VA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5674677		19971007
APPLICATION INFO.:	US 1995-572441		19951214 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-360360, filed on 21 Dec 1994
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Nucker, Christine M.

ASSISTANT EXAMINER: Stucker, Jeffrey
LEGAL REPRESENTATIVE: Whitham, Curtis, Whitham & McGinn
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 1 Drawing Page(s)
LINE COUNT: 637
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 97 OF 101 USPATFULL
ACCESSION NUMBER: 97:51973 USPATFULL
TITLE: Peptide mediated enhancement of thrombolysis methods and compositions
INVENTOR(S): Lawrence, Daniel A., Ann Arbor, MI, United States
Ginsburg, David, Ann Arbor, MI, United States
Shore, Joseph D., Grosse Point Farms, MI, United States
Fay, William P., Ann Arbor, MI, United States
Olson, Steven T., Chicago, IL, United States
Francis-Chmura, Ann Marie, Warren, MI, United States
Eitzman, Daniel T., Ypsilanti, MI, United States
Paielli, Dell, Wyandotte, MI, United States
PATENT ASSIGNEE(S): The Regents of the University of Michigan, Ann Arbor, MI, United States (U.S. corporation)
Henry Ford Health System, Detroit, MI, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5639726		19970617	
APPLICATION INFO.:	US 1994-315461		19940930	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Davenport, Avis M.
LEGAL REPRESENTATIVE: Arnold, White & Durkee
NUMBER OF CLAIMS: 59
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 13 Drawing Figure(s); 10 Drawing Page(s)
LINE COUNT: 4817
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 98 OF 101 USPATFULL
ACCESSION NUMBER: 97:33647 USPATFULL
TITLE: Bcl-x/Bcl-2 associated cell death regulator
INVENTOR(S): Korsmeyer, Stanley J., Clayton, MO, United States
PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5622852		19970422	
APPLICATION INFO.:	US 1994-333565		19941031	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
ASSISTANT EXAMINER: Bugaisky, G. E.
LEGAL REPRESENTATIVE: Dunn, Tracy J.
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 34 Drawing Figure(s); 15 Drawing Page(s)
LINE COUNT: 3763
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 99 OF 101 MEDLINE
ACCESSION NUMBER: 96191313 MEDLINE
DOCUMENT NUMBER: 96191313 PubMed ID: 8619901

TITLE: Double **tagging** recombinant A1- and A2A-adenosine receptors with hexahistidine and the FLAG epitope. Development of an efficient generic protein purification procedure.
AUTHOR: Robeva A S; Woodard R; Luthin D R; Taylor H E; Linden J
CORPORATE SOURCE: Department of Internal Medicine, University of Virginia Health Sciences Center, Charlottesville 22908, USA.
CONTRACT NUMBER: RO1-HL37942 (NHLBI)
SOURCE: BIOCHEMICAL PHARMACOLOGY, (1996 Feb 23) 51 (4) 545-55. Journal code: 9Z4; 0101032. ISSN: 0006-2952.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199606
ENTRY DATE: Entered STN: 19960620
Last Updated on STN: 19980206
Entered Medline: 19960613

L8 ANSWER 100 OF 101 USPATFULL
ACCESSION NUMBER: 95:45343 USPATFULL
TITLE: Drugs containing a glycosylated interleukin-2
INVENTOR(S): Roskam, deceased, Willem, late of Montgiscard, France
by Nicole Brunot, legal representative
Basuyaux, Bertrand, Courbevoie, France
Ferrara, Pascual, Villefranche de Lauragais, France
Laporte, Martine, Ramonville Saint-Agne, France
Maureaud, Thierry, Auzielle, France
Vita, Natalio, Toulouse, France
Bayol, Alain, Tournefeuille, France
Perry, Genevieve, Toulouse, France
PATENT ASSIGNEE(S): Sanofi, Paris, France (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5417970		19950523
APPLICATION INFO.:	US 1993-152886		19931116 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-715862, filed on 17 Jun 1991, now abandoned which is a continuation of Ser. No. US 1990-499472, filed on 21 Jun 1990, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	FR 1988-13865	19881021
	FR 1988-8905150	19881021

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Russel, Jeffrey E.
LEGAL REPRESENTATIVE: Foley & Lardner
NUMBER OF CLAIMS: 25
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 1632
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L8 ANSWER 101 OF 101 LIFESCI COPYRIGHT 2002 CSA
ACCESSION NUMBER: 96:63817 LIFESCI
TITLE: A highly specific and sensitive monoclonal antibody detecting **histidine**-tagged **recombinant proteins**
AUTHOR: Pogge von Strandmann, E.; Zoidl, C.; Nakhei, H.; Holewa, B.; Pogge von Strandmann, R.; Lorenz, P.; Klein-Hitpass, L.; Ryffel, G.U.
CORPORATE SOURCE: Inst. Zellbiol. (Tumorforsch). Universitaetsklin. Essen,

Hufelandstr. 55, D-45122 Essen, Germany
SOURCE: PROTEIN ENG., (1995) vol. 8, no. 7, pp. 733-735.
ISSN: 0269-2139.
DOCUMENT TYPE: Journal
FILE SEGMENT: W2
LANGUAGE: English
SUMMARY LANGUAGE: English

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L3 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
ACCESSION NUMBER: 2002:69213 CAPLUS
TITLE: Immunity to placental malaria. III. Impairment of interleukin (IL)-12, not IL-18, and interferon-inducible protein-10 responses in the placental intervillous blood of human immunodeficiency virus/malaria-coinfected women
AUTHOR(S): Chaisavaneeyakorn, Sujittra; Moore, Julie M.; Otieno, Juliana; Chaiyaroj, Sansanee C.; Perkins, Douglas J.; **Shi, Ya Ping**; Nahlen, Bernard L.; Lal, Altaf A.; Udhayakumar, Venkatachalam
CORPORATE SOURCE: Division of Parasitic Diseases, National Center for Infectious Diseases, Atlanta, Switz.
SOURCE: Journal of Infectious Diseases (2002), 185(1), 127-131
CODEN: JIDIAQ; ISSN: 0022-1899
PUBLISHER: University of Chicago Press
DOCUMENT TYPE: Journal
LANGUAGE: English

L3 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
ACCESSION NUMBER: 2001:527197 CAPLUS
TITLE: Fc.gamma. receptor IIa (CD32) polymorphism is associated with protection of infants against high-density plasmodium falciparum infection. VII. Asembo bay cohort project
AUTHOR(S): **Shi, Ya Ping**; Nahlen, Bernard L.; Kariuki, Simon; Urdahl, Kevin B.; McElroy, Peter D.; Roberts, Jacqueline M.; Lal, Altaf A.
CORPORATE SOURCE: Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, USA
SOURCE: J. Infect. Dis. (2001), 184(1), 107-111
CODEN: JIDIAQ; ISSN: 0022-1899
PUBLISHER: University of Chicago Press
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2000:145032 CAPLUS
DOCUMENT NUMBER: 132:206925
TITLE: Recombinant multivalent malarial vaccine against Plasmodium falciparum
INVENTOR(S): Lal, Altaf A.; **Shi, Ya Ping**; Hasnain, Seyed E.
PATENT ASSIGNEE(S): United States Dept. of Health and Human Services, USA; National Institute of Immunology
SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000011179	A1	20000302	WO 1999-US18869	19990819

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9957785 A1 20000314 AU 1999-57785 19990819

EP 1105487 A1 20010613 EP 1999-945095 19990819

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRIORITY APPLN. INFO.: US 1998-97703 P 19980821

WO 1999-US18869 W 19990819

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 3

ACCESSION NUMBER: 2000:389006 BIOSIS

DOCUMENT NUMBER: PREV200000389006

TITLE: Development, expression, and murine testing of a multistage Plasmodium falciparum malaria vaccine candidate.

AUTHOR(S): **Shi, Ya Ping**; Das, Parimal; Holloway, Brian; Udhayakumar, Venkatachalam; Tongren, Jon Eric; Candal, Francisco; Biswas, Sukla; Ahmad, Raies; Hasnain, Seyed E.; Lal, Altaf A. (1)

CORPORATE SOURCE: (1) Molecular Vaccine Section, Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Public Health Service, United States Department of Health and Human Service, Atlanta, GA, 30341-3717 USA

SOURCE: Vaccine, (15 June, 2000) Vol. 18, No. 25, pp. 2902-2914. print.
ISSN: 0264-410X.

DOCUMENT TYPE: Article

LANGUAGE: English

SUMMARY LANGUAGE: English

L3 ANSWER 5 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 4

ACCESSION NUMBER: 1999:146248 BIOSIS

DOCUMENT NUMBER: PREV199900146248

TITLE: Immunogenicity and in vitro protective efficacy of a recombinant multistage Plasmodium falciparum candidate vaccine.

AUTHOR(S): **Shi, Ya Ping**; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A. (1)

CORPORATE SOURCE: (1) Div. Parasitic Diseases, Mol. Vaccine Sect., Cent. Dis. Control Prevention, Mail Stop F-12, 4770 Buford Highway, Chambee, GA 30341-3717 USA

SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (Feb. 16, 1999) Vol. 96, No. 4, pp. 1615-1620.
ISSN: 0027-8424.

DOCUMENT TYPE: Article

LANGUAGE: English

L3 ANSWER 6 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 5

ACCESSION NUMBER: 1999:140596 BIOSIS

DOCUMENT NUMBER: PREV199900140596

TITLE: Differential effect and interaction of monocytes, hyperimmune sera, and immunoglobulin G on the growth of asexual stage Plasmodium falciparum parasites.

AUTHOR(S): **Shi, Ya Ping (1)**; Udhayakumar, Venkatchalam (1); Oloo, Aggrey J.; Nahlen, Bernard L.; Lal, Altaf A. (1)

CORPORATE SOURCE: (1) Immunol. Branch, Mol. Vaccine Sect., Div. Parasitic Dis., Natl. Cent. Infect. Dis., Cent. Dis. Control Prev., Building 22, Room 4, Mailstop F-12, 4770 Buford Highway, Atlanta, GA 30341 USA
SOURCE: American Journal of Tropical Medicine and Hygiene, (Jan., 1999) Vol. 60, No. 1, pp. 135-141.
ISSN: 0002-9637.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 7 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 6
ACCESSION NUMBER: 1998:322855 BIOSIS
DOCUMENT NUMBER: PREV199800322855
TITLE: Predicted and observed alles of Plasmodium falciparum merozoite surface protein-1 (MSP-1), a potential malaria vaccine antigen.
AUTHOR(S): Qari, Shoukat H. (1); **Shi, Ya-Ping**; Goldman, Ira F.; Nahlen, Bernard L.; Tibayrenc, Michel; Lal, Altaf A.
CORPORATE SOURCE: (1) DASTLR, Centers Disease Control Prevention, Build. 15, Mail Stop G-19, 1600 Clifton Rd., Atlanta, GA 30333 USA
SOURCE: Molecular and Biochemical Parasitology, (May 1, 1998) Vol. 92, No. 2, pp. 241-252.
ISSN: 0166-6851.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 8 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 7
ACCESSION NUMBER: 1997:439694 BIOSIS
DOCUMENT NUMBER: PREV199799738897
TITLE: Cytotoxic T cell reactivity and HLA-B35 binding of the variant Plasmodium falciparum circumsporozoite protein CD8+ CTL epitope in naturally exposed Kenyan adults.
AUTHOR(S): Udhayakumar, Venkatachalam (1); Ongecha, John M.; **Shi, Ya-Ping**; Aidoo, Michael; Orago, A. S. S.; Oloo, Aggrey J.; Hawley, William A.; Nahlen, Bernard L.; Hoffman, Stephen L.; Weiss, Walter R.; Lal, Altaf A.
CORPORATE SOURCE: (1) Molecular Vaccine Section, Mail Stop F-12, CDC, Atlanta, GA 30341-3724 USA
SOURCE: European Journal of Immunology, (1997) Vol. 27, No. 8, pp. 1952-1957.
ISSN: 0014-2980.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 9 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 8
ACCESSION NUMBER: 1996:365928 BIOSIS
DOCUMENT NUMBER: PREV199699088284
TITLE: Natural immune response to the C-terminal 19-kilodalton domain of Plasmodium falciparum merozoite surface protein 1.
AUTHOR(S): **Shi, Ya Ping**; Sayed, Umar; Qari, Shoukat H.; Roberts, Jacquelin M.; Udhayakumar, Venkatachalam; Oloo, Aggrey J.; Hawley, William A.; Kaslow, David C.; Nahlen, Bernard L.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Mail Stop F-12, Molecular Vaccine Sect., DPD, NCID, Centers Disease Control Prevention, 4770 Buford Hwy., Chamblee, GA 30341-3717 USA
SOURCE: Infection and Immunity, (1996) Vol. 64, No. 7, pp. 2716-2723.
ISSN: 0019-9567.
DOCUMENT TYPE: Article

LANGUAGE: English

L3 ANSWER 10 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 9
ACCESSION NUMBER: 1996:269091 BIOSIS
DOCUMENT NUMBER: PREV199698825220
TITLE: Genetic conservation of the Plasmodium falciparum apical membrane antigen-1 (AMA-1.
AUTHOR(S): Oliveira, Denise A.; Udhayakumar, Venkatachalam; Bloland, Peter; **Shi, Ya Ping**; Nahlen, Bernard L.; Oloo, Aggrey J.; Hawley, William E.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Div. Parasitic Diseases, Natl. Cent. Infectious Diseases, Cent. Disease Control Prevention, 4770 Buford Highway, Mail Stop F12, Chamblee, GA 30341 USA
SOURCE: Molecular and Biochemical Parasitology, (1996) Vol. 76, No. 1-2, pp. 333-336.
ISSN: 0166-6851.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 11 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 10
ACCESSION NUMBER: 1996:412138 BIOSIS
DOCUMENT NUMBER: PREV199699134494
TITLE: Phylogenetic relationship among the malaria parasites based on small subunit rRNA gene sequences: Monophyletic nature of the human malaria parasite, Plasmodium falciparum.
AUTHOR(S): Qari, Shoukat H.; **Shi, Ya Ping**; Pieniazek, Norman J.; Collins, William E.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Mol. Vaccine Section Immunol. Branch, Div. Parasitic Dis., CDC, Building 22, Mail Stop 12, 4770 Buford Highway, Atlanta, GA 30341 USA
SOURCE: Molecular Phylogenetics and Evolution, (1996) Vol. 6, No. 1, pp. 157-165.
ISSN: 1055-7903.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 12 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 11
ACCESSION NUMBER: 1995:319673 BIOSIS
DOCUMENT NUMBER: PREV199598333973
TITLE: Identification of T and B cell epitopes recognized by humans in the C-terminal 42-kDa domain of the Plasmodium falciparum merozoite surface protein (MSP)-1.
AUTHOR(S): Udhayakumar, Venkatachalam (1); Anyona, David; Kariuki, Simon; **Shi, Ya Ping**; Bloland, Peter B.; Branch, Oralee H.; Weiss, Walter; Nahlen, Bernard L.; Kaslow, David C.; Lal, Altaf A.
CORPORATE SOURCE: (1) Mail Stop F-12, Cent. Dis. Control Prevention, 4770 Buford Highway, Chamblee, GA 30341-3724 USA
SOURCE: Journal of Immunology, (1995) Vol. 154, No. 11, pp. 6022-6030.
ISSN: 0022-1767.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 13 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 12
ACCESSION NUMBER: 1995:393502 BIOSIS
DOCUMENT NUMBER: PREV199598407802
TITLE: Sequence variations in the non-repetitive regions of the liver stage-specific antigen-1 (LSA-1) of Plasmodium falciparum from field isolates.

AUTHOR(S): Yang, Chunfu (1); **Shi, Ya-Ping**; Udhayakumar, Venkatachalam; Alpers, Michael P.; Povoa, Marinete M.; Hawley, William A.; Collins, William E.; Lal, Altaf A.
CORPORATE SOURCE: (1) Immunol. Branch, Div. Parasitic Dis., Natl. Cent. Infectious Dis., Cent. Dis. Control Prevention, Public Health Serv., US Dep. Health Human Serv., Mail stop F-12, 1600 Clifton Rd., Atlanta, GA 30333 USA
SOURCE: Molecular and Biochemical Parasitology, (1995) Vol. 71, No. 2, pp. 291-294.
ISSN: 0166-6851.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 14 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 13
ACCESSION NUMBER: 1994:211391 BIOSIS
DOCUMENT NUMBER: PREV199497224391
TITLE: Antigenic diversity in the circumsporozoite protein of Plasmodium falciparum abrogates cytotoxic-T-cell recognition.
AUTHOR(S): Udhayakumar, Venkatachalam (1); **Shi, Ya-Ping**; Kumar, Sanjai; Jue, Danny L.; Wohlhueter, Robert M.; Lal, Altaf A.
CORPORATE SOURCE: (1) 4770 Buford Highway, Mail Stop F-12, Malaria Branch, Cent. Disease Control and Prevention, Atlanta, GA 30341 USA
SOURCE: Infection and Immunity, (1994) Vol. 62, No. 4, pp. 1410-1413.
ISSN: 0019-9567.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1996:432126 CAPLUS
DOCUMENT NUMBER: 125:84066
TITLE: Antigenic diversity in the circumsporozoite protein of human malaria parasites
AUTHOR(S): Udhayakumar, V.; **Shi, Ya-Ping**; Qari, Shoukat; Goldman, Ira; Collins, William E.; Lal, Altaf A.
CORPORATE SOURCE: Centers Disease Control and Prevention, National Center Infectious Diseases, Atlanta, USA
SOURCE: Recomb. Synth. Vaccines (1994), 117-124. Editor(s): Talwar, G. P.; Rao, Kanury V. S.; Chauhan, V. S. Narosa: New Delhi, India.
CODEN: 63BLAX
DOCUMENT TYPE: Conference
LANGUAGE: English

L3 ANSWER 16 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 14
ACCESSION NUMBER: 1993:388854 BIOSIS
DOCUMENT NUMBER: PREV199396064154
TITLE: Natural antibody responses against the non-repeat-sequence-based B-cell epitopes of the Plasmodium falciparum circumsporozoite protein.
AUTHOR(S): **Shi, Ya Ping**; Udhayakumar, Venkatachalam; Alpers, Michael P.; Povoa, Marinete M.; Oloo, Aggrey J.; Ruebush, Trenton K. Ii; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Malaria Branch, Div. Parasitic Dis., Natl. Cent. Infect. Dis., Cent. Dis. Control., Atlanta, GA 30333 USA
SOURCE: Infection and Immunity, (1993) Vol. 61, No. 6, pp. 2425-2433.
ISSN: 0019-9567.
DOCUMENT TYPE: Article

LANGUAGE: English

L3 ANSWER 17 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 15
ACCESSION NUMBER: 1994:38292 BIOSIS
DOCUMENT NUMBER: PREV199497051292
TITLE: Global occurrence of Plasmodium vivax-like human malaria parasite.
AUTHOR(S): Qari, Shoukat H. (1); **Shi, Ya-Ping**; Povoa, Marinete M.; Alpers, Michael P.; Deloron, Philippe; Murphy, Gerald S.; Harjosuwarno, Slamet; Lal, Altaf A.
CORPORATE SOURCE: (1) Malaria Branch, Cent. Dis. Control Prevention, 4770 Buford Highway, Atlanta, GA 30341-3717 USA
SOURCE: Journal of Infectious Diseases, (1993) Vol. 168, No. 6, pp. 1485-1489.
ISSN: 0022-1899.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 18 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 16
ACCESSION NUMBER: 1993:275360 BIOSIS
DOCUMENT NUMBER: PREV199396005585
TITLE: Identification of Plasmodium-vivax-like human malaria parasite.
AUTHOR(S): Qari, Shoukat H.; **Shi, Ya-Ping**; Goldman, Ira F.; Udhayakumar, Venkatachalem; Alpers, Michael P.; Collins, William E.; Lal, Altaf A. (1)
CORPORATE SOURCE: (1) Malaria Branch, 4770 Buford Highway, Cent. Dis. Control, Chamblee, GA 30341 USA
SOURCE: Lancet (North American Edition), (1993) Vol. 341, No. 8848, pp. 780-783.
ISSN: 0099-5355.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 19 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 17
ACCESSION NUMBER: 1993:146977 BIOSIS
DOCUMENT NUMBER: PREV199395079777
TITLE: Diversity in the immunodominant determinants of the circumsporozoite protein of Plasmodium falciparum parasites from malaria-endemic regions of Papua New Guinea and Brazil.
AUTHOR(S): **Shi, Ya-Ping (1)**; Alpers, Michael P.; Povoa, Marinete M.; Lal, Altaf A.
CORPORATE SOURCE: (1) Malaria Branch, Division Parasitic Diseases, National Center Infectious Diseases, Centers Disease Control, Atlanta, GA 30333
SOURCE: American Journal of Tropical Medicine and Hygiene, (1992) Vol. 47, No. 6, pp. 844-851.
ISSN: 0002-9637.
DOCUMENT TYPE: Article
LANGUAGE: English

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 18
ACCESSION NUMBER: 1992:56911 CAPLUS
DOCUMENT NUMBER: 116:56911
TITLE: Single amino acid variation in the ookinete vaccine antigen from field isolates of Plasmodium falciparum
AUTHOR(S): **Shi, Ya Ping**; Alpers, Michael P.; Povoa, Marinette M.; Lal, Altaf A.
CORPORATE SOURCE: Malar. Branch, Cent. Dis. Control, Atlanta, GA, 30333, USA

SOURCE: Mol. Biochem. Parasitol. (1992), 50(1), 179-80
CODEN: MBIPDP; ISSN: 0166-6851
DOCUMENT TYPE: Journal
LANGUAGE: English

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19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 2000:145032 CAPLUS
DN 132:206925
TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum
IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.
PA United States Dept. of Health and Human Services, USA; National Institute of Immunology
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000011179	A1	20000302	WO 1999-US18869	19990819
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9957785	A1	20000314	AU 1999-57785	19990819
EP 1105487	A1	20010613	EP 1999-945095	19990819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI US 1998-97703P	P	19980821		
WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS
AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AN 1996:463347 BIOSIS
DN PREV199699185703
TI NYVAC-Pf7: A poxvirus-vectored, multiantigen, multistage vaccine candidate for Plasmodium falciparum malaria.
AU Tine, John A.; Lanar, David E.; Smith, Darlene M.; Wellde, Bruce T.; Schultheiss, Peter; Ware, Lisa A.; Kauffman, Elizabeth B.; Wirtz, Robert A.; De Taisne, Charles; Hui, George S. N.; Chang, Sandra P.; Church, Preston; Hollingdale, Michael R.; Kaslow, David C.; Hoffman, Stephen;

monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.

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CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
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RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L19 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB The highly attenuated NYVAC vaccinia virus strain has been utilized to develop a multiantigen, multistage vaccine candidate for malaria, a disease that remains a serious global health problem and for which no highly effective vaccine exists. Genes encoding seven Plasmodium falciparum antigens derived from the sporozoite (circumsporozoite protein and sporozoite surface protein 2), liver (**liver stage antigen** 1), blood (merozoite surface protein 1, serine repeat antigen, and **apical membrane antigen** 1), and sexual (25-kDa sexual-stage antigen) stages of the parasite life cycle were inserted into a single NYVAC genome to generate NYVAC-Pf7. Each of the seven antigens was expressed in NYVAC-Pf7-infected culture cells, and the genotypic and phenotypic stability of the **recombinant** virus was demonstrated. When inoculated into rhesus monkeys, NYVAC-Pf7 was safe and well tolerated. Antibodies that recognize sporozoites, liver, blood, and sexual stages of P. falciparum were elicited. Specific antibody responses against four of the P. falciparum antigens (circumsporozoite protein, sporozoite surface protein 2, merozoite surface protein 1, and 25-kDa sexual-stage antigen) were characterized. The results demonstrate that NYVAC-Pf7 is an appropriate candidate vaccine for further evaluation in human clinical trials.
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CS Inq. Inq. USA
SO Infection and Immunity, (1996) Vol. 64, No. 9, pp. 3833-3844.
ISSN: 0019-9567.
DT Article
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Guito, Kenneth P.; Ballou, W. Ripley; Sadoff, Jerald C.; Paoletti, Enzo
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L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).

AN 2000:145032 CAPLUS

DN 132:206925

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IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.

PA United States Dept. of Health and Human Services, USA; National Institute of Immunology

SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957785	A1	20000314	AU 1999-57785	19990819
	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of

monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.

AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 4 USPATFULL
AB An IgG1 monoclonal antibody, Navy Yoelii Liver Stage 3 (NYLS3) does not recognize sporozoites, but recognizes P. yoelii liver stage parasites within 6 hours of invasion of mouse hepatocytes, and throughout the hepatic and asexual erythrocytic stages of the life cycle. When added to primary cultures of mouse hepatocytes 24 hours after inoculation with P. yoelii sporozoites, when all sporozoites have invaded hepatocytes, NYLS3 eliminates up to 98% of liver stage parasites. Intravenous injection of NYLS3 into mice delays the onset and reduces the density of blood stage parasitemia after sporozoite or blood stage challenge. The protein recognized by this mAb is identified and designated P. yoelii hepatic and erythrocytic stage protein, 17-kDa or PyHEP17. The gene encoding PyHEP17 and a DNA vaccine comprising exons of the DNA that encodes PyHEP17 are disclosed. A DNA vaccine consisting of exon 1 and part of exon 2 of the gene encoding PyHEP17 protects 86% of A/J mice, 33%-43% of B10.BR mice, 17%-29% of BALB/c mice and 14%-20% of B10.Q mice from development of blood-stage parasitemia. A combination of DNA vaccines consisting of a PyHEP17 DNA vaccine and a PyCSP DNA vaccine confers complete protection against development of blood-stage parasitemia in BALB/c mice and 71% protection in A/J and B10.BR mice. This DNA vaccine-induced protection may be additive. Combinations of other malaria antigens are covered. The application discloses the P. falciparum homolog of PyHEP17 and includes the means of identification of the PyHEP17 homologs of the other Plasmodium species which infect humans, specifically P. vivax, P. ovale and P. malariae.
AN 1998:119133 USPATFULL
TI Protective 17 KDA malaria hepatic and erythrocytic stage immunogen and gene
IN Hoffman, Stephen L., Gaithersburg, MD, United States
Charoenvit, Yupin, Silver Spring, MD, United States
Hedstrom, Richard C., Gaithersburg, MD, United States
Doolan, Denise L., Rockville, MD, United States
PA The United States of America as represented by the Secretary of the Navy, Washington, DC, United States (U.S. government)
PI US 5814617 19980929
AI US 1994-319704 19941007 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Cunningham, Thomas M.

LREP Spevack, A. David
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 17 Drawing Figure(s); 7 Drawing Page(s)
LN.CNT 1590
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L18 ANSWER 4 OF 4 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB The highly attenuated NYVAC vaccinia virus strain has been utilized to develop a multiantigen, multistage vaccine candidate for malaria, a disease that remains a serious global health problem and for which no highly effective vaccine exists. Genes encoding seven Plasmodium falciparum antigens derived from the sporozoite (circumsporozoite protein and sporozoite surface protein 2), liver (**liver stage antigen** 1), blood (**merozoite surface protein** 1, serine repeat antigen, and apical membrane antigen 1), and sexual (25-kDa sexual-stage antigen) stages of the parasite life cycle were inserted into a single NYVAC genome to generate NYVAC-Pf7. Each of the seven antigens was expressed in NYVAC-Pf7-infected culture cells, and the genotypic and phenotypic stability of the **recombinant** virus was demonstrated. When inoculated into rhesus monkeys, NYVAC-Pf7 was safe and well tolerated. Antibodies that recognize sporozoites, liver, blood, and sexual stages of P. falciparum were elicited. Specific antibody responses against four of the P. falciparum antigens (circumsporozoite protein, sporozoite surface protein 2, **merozoite surface protein** 1, and 25-kDa sexual-stage antigen) were characterized. The results demonstrate that NYVAC-Pf7 is an appropriate candidate vaccine for further evaluation in human clinical trials.
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L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).

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DN 132:206925

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PA United States Dept. of Health and Human Services, USA; National Institute of Immunology

SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

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L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

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L39 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

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	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

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L39 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

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CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA

SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424

PB National Academy of Sciences

DT Journal

LA English

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L38 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

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AN 2000:145032 CAPLUS

DN 132:206925

TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum

IN Lal, Altaf A.; Shi, Ya-Ping; Hasnain, Seyed E.

PA United States Dept. of Health and Human Services, USA; National Institute of Immunology

SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957785	A1	20000314	AU 1999-57785	19990819
	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of

monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.

AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB The processing and localization of Plasmodium falciparum **rhoptry -associated protein** 1 (RAP-1) products were examined using polyclonal and monoclonal antibodies raised to a **recombinant** protein containing residues 1-294 of RAP-1. Immunoblot and epitope mapping results with antibodies that selectively bound epitopes in the RAP-1 products Pr86, p82, and p67 showed that p82 and p67 are formed from Pr86 by progressive removal of epitopes from the amino-terminus of the RAP-1 coding sequence. The capacity of Pr86 to form complexes was revealed after size fractionation of parasite proteins radiolabeled in the presence of brefeldin A to prevent processing of Pr86. Fractions containing complexed Pr86 also contained the RAP-2 product p39 and the RAP-3 product p37, suggesting that Pr86, p39 and p37 may form complexes similar to complexes previously reported for p82 and p67 with p39 or p37. Immunofluorescence localization and immunoblot studies revealed that Pr86 is present in the rhoptries, but only transiently, and that it is not detected in segmenting schizonts or extracellular merozoites. p67 and p82, on the other hand, were shown to be major RAP-1 components in purified merozoites. Neither p67 nor p82 were relocalized from the intracellular rhoptries to the merozoite surface under conditions that promoted relocalization of the rhoptry protein PF83/**apical membrane antigen** 1. These results suggest that processing of Pr86 begins after Pr86 complexes are transported to the forming rhoptries and that two site-selective processing reactions occur in the rhoptries, a rapid cleavage of Pr86 to p82 and a delayed cleavage of p82 to p67. Since p67 is missing from ring-stage parasites (Howard et al., Am J Trop Med Hyg, 1984;33:1055-59), the present results indicate there is a narrow time during which p67 may play a role in merozoite invasion of erythrocytes.
AN 1998:229264 BIOSIS
DN PREV199800229264
TI Analysis of the processing of Plasmodium falciparum **rhoptry-associated protein** 1 and localization of Pr86 to schizont rhoptries and p67 to free merozoites.
AU Howard, Randall F. (1); Narum, David L.; Blackman, Michael; Thurman, Joyce
CS (1) Seattle Biomed. Res. Inst., 4 Nickerson St., Seattle, WA 98117 USA
SO Molecular and Biochemical Parasitology, (April 1, 1998) Vol. 92, No. 1, pp. 111-122.
ISSN: 0166-6851.
DT Article

LA English

L38 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 2
AB PfPK4, a protein kinase gene from the human malarial parasite Plasmodium falciparum, has been cloned utilizing oligonucleotide probing. The gene encodes a protein of a predicted length of 1123 amino acids, and within this amino acid sequence all the conserved regions characteristic of protein kinases can be identified. The catalytic kinase domain possesses highest identities (34-37%) with eukaryotic initiation factor-2alpha (eIF-2alpha) kinases, especially haem-regulated inhibitory (HRI) protein kinases. There are two kinase inserts in PfPK4, located at positions common to eIF-2alpha kinases. The first insert separates kinase subdomains IV and VI by 559 amino acids, and the second subdomains VII and VIII by 41 amino acids. Both inserts are larger than their homologues in eIF-2alpha kinases. The sequence of PfPK4 has one putative haemin-binding site. The **recombinant** protein, expressed in Escherichia coli, phosphorylates a synthetic peptide representing a substrate of eIF-2alpha kinases. Autophosphorylation and substrate phosphorylation are inhibited by haemin. Thus PfPK4 appears to be the first protozoan protein kinase related to eIF-2alpha kinases and might be the first non-mammalian HRI kinase. Western blots indicated that the protein is expressed as major forms of 80 and 90 kDa. Whereas the 80 kDa form is present throughout the intraerythrocytic development and in merozoites, the two 90 kDa forms are only found in mature parasites. One of the latter is also present in the membrane fraction of erythrocytes harbouring segmenters. Confocal microscopy detected the protein distributed throughout the trophozoite, whereas it was found in discrete foci (punctate distribution) in segmenters. PfPK4 co-localizes with P. falciparum 83 kDa antigen/ **apical membrane antigen**-1 at the apical complex in segmenters and merozoites, but does not co-localize with **rhoptry-associated protein**-1.
AN 1998:46185 BIOSIS
DN PREV199800046185
TI Molecular cloning, characterization and localization of PfPK4, an eIF-2alpha kinase-related enzyme from the malarial parasite Plasmodium falciparum.
AU Mohrle, Jorg J.; Zhao, Yi; Wernli, Barbara; Franklin, Richard M.; Kappes, Barbara (1)
CS (1) Swiss Tropical Inst., Socinstrasse 57, CH-4002 Basel Switzerland
SO Biochemical Journal, (Dec. 1, 1997) Vol. 328, No. 2, pp. 677-687. ISSN: 0264-6021.
DT Article
LA English

L38 ANSWER 5 OF 6 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AB Because of the increasing problems of resistance to chemicals and chemical residues, preventative vaccination has increasing appeal as a way to control parasite infestations in humans and in animals. Such vaccines are now feasible through the application of genetic engineering technology to allow production of parasite protective antigens in microorganisms in commercially viable quantities at an acceptable cost. This concept is illustrated by describing research toward subunit vaccines against human malaria (P. falciparum) and against the tropical cattle tick (B. microplus). Although the concept is straightforward, difficulties include the identification of a protective antigen, refolding of the initial microbial product to achieve the native conformation, and its formulation to produce a vaccine eliciting an adequate and appropriate immune response.
AN 94168661 EMBASE
DN 1994168661
TI Microorganisms in the development of subunit vaccines against parasites.
AU Willetts N.
CS Biotech Australia Pty. Ltd., P.O. Box 20,Roseville, Sydney, Australia
SO Critical Reviews in Microbiology, (1994) 20/2 (79-85).

ISSN: 1040-841X CODEN: CRVMAC
CY United States
DT Journal; General Review
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English

L38 ANSWER 6 OF 6 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 94150764 EMBASE
DN 1994150764
TI The promise of asexual malaria vaccine development.
AU Pasloske B.L.; Howard R.J.
CS Affymax Research Institute, 3410 Central Expressway,Santa Clara, CA 95051, United States
SO American Journal of Tropical Medicine and Hygiene, (1994) 50/4 SUPPL. (3-10).
ISSN: 0002-9637 CODEN: AJTHAB
CY United States
DT Journal; Conference Article
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English

=>

37 ANSWER 1 OF 5 USPATFULL
AB Compositions that inhibit the binding of Plasmodium falciparum to erythrocytes include a family of erythrocyte binding proteins (EBPs). The EBPs are paralogues of the P. falciparum binding protein EBA-175. The present invention includes peptides of the paralogues that prevent the binding of P. falciparum. Antibodies specific for each paralogue that also prevent the binding of P. falciparum are also included. Methods of the invention utilize the paralogues, antibodies thereof and peptide compositions for the diagnosis, prevention, and treatment of P. falciparum diseases such as malaria, as well as methods for the detection of P. falciparum in biological samples and culture media.
AN 2002:235058 USPATFULL
TI Anti-plasmodium compositions and methods of use
IN Narum, David L., Gaithersburg, MD, UNITED STATES
Sim, Kim L., Gaithersburg, MD, UNITED STATES
PI US 2002127241 A1 20020912
AI US 2001-924154 A1 20010807 (9)
PRAI US 2000-223525P 20000807 (60)
DT Utility
FS APPLICATION
LREP JOHN S. PRATT, ESQ, KILPATRICK STOCKTON, LLP, 1100 PEACHTREE STREET, SUITE 2800, ATLANTA, GA, 30309
CLMN Number of Claims: 20
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 1391

L37 ANSWER 2 OF 5 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB Malaria parasites invade erythrocytes in a process mediated by a series of molecular interactions. Invasion of human erythrocytes by Plasmodium vivax is dependent upon the presence of a single receptor, but P. falciparum, as well as some other species, exhibits the ability to utilize multiple alternative pathways. Conserved cysteine-rich domains play important roles at critical times during this invasion process and at other stages in the life cycle of malaria parasites. Duffy-binding-like (DBL) domains, expressed as a part of the erythrocyte-binding proteins (DBL-EBP), are such essential cysteine-rich ligands that recognize specific host cell surface receptors. DBL-EBP, which are products of the erythrocyte-binding-like (ebl) gene family act as critical determinants of erythrocyte specificity and are the best-defined ligands from invasive stages of malaria parasites. The ebl genes include the P. falciparum **erythrocyte-binding antigen**-175 (EBA-175) and P. vivax Duffy-binding protein. DBL domains also mediate cytoadherence as a part of the variant erythrocytic membrane protein-1 (PfEMP-1) antigens expressed from var genes on the surface of P. falciparum-infected erythrocytes. A paralogue of the ebl family is the malarial ligand MAEBL, which has a **chimeric** structure where the DBL domain is functionally replaced with a distinct cysteine-rich erythrocyte-binding domain with similarity to the **apical membrane antigen**-1 (AMA-1) ligand domain. The Plasmodium AMA-1 ligand domain, which encompasses the extracellular cysteine domains 1 and 2 and is well conserved in a Toxoplasma gondii AMA-1, has erythrocyte-binding activity distinct from that of MAEBL. These important families of Plasmodium molecules (DBL-EBP, PfEMP-1, MAEBL, AMA-1) are interrelated through the MAEBL. Because MAEBL and the other ebl products have the characteristics expected of homologous ligands involved in equivalent alternative invasion pathways to each other, we sought to better understand their roles during invasion by determining their relative origins in the Plasmodium genome. An analysis of their multiple cysteine-rich domains permitted a unique insight into the evolutionary development of Plasmodium. Our data indicate that maebl, ama-1, and ebl genes have ancient origins which predate Plasmodium speciation. The maebl evolved as a single locus, including its unique **chimeric** structure, in each Plasmodium species, in parallel with the ama-1 and the

ebl genes families. The ancient character of maebl, along with its different expression characteristics suggests that MAEBL is unique and does not play an alternative role in invasion to ebl products such as EBA-175. The multiple P. falciparum ebl paralogues that express DBL domains, which have occurred by duplication and diversification, potentially do provide multiple functionally equivalent ligands to EBA-175 for alternative invasion pathways.

AN 2002:437069 BIOSIS
DN PREV200200437069
TI Evolutionary relationships of conserved cysteine-rich motifs in adhesive molecules of malaria parasites.
AU Michon, Pascal; Stevens, Jamie R.; Kaneko, Osamu; Adams, John H. (1)
CS (1) Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, 46556: jadams3@nd.edu USA
SO Molecular Biology and Evolution, (July, 2002) Vol. 19, No. 7, pp. 1128-1142. http://www.molbiolevol.org/. print.
ISSN: 0737-4038.
DT Article
LA English

L37 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2002 ACS
AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).
AN 2000:145032 CAPLUS
DN 132:206925
TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum
IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.
PA United States Dept. of Health and Human Services, USA; National Institute of Immunology
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000011179	A1	20000302	WO 1999-US18869	19990819
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9957785	A1	20000314	AU 1999-57785	19990819
EP 1105487	A1	20010613	EP 1999-945095	19990819
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002523430	T2	20020730	JP 2000-566433	19990819

PRAI US 1998-97703P P 19980821
WO 1999-US18869 W 19990819
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2002 ACS
AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.
AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L37 ANSWER 5 OF 5 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 2
AB Recently it has become evident that the same candidate antigen can be shared by several of the parasite stages, and thus the concept of a multistage vaccine is becoming more and more attractive. A TDR Task Force evaluated the promise and stage of development of some 20 existing asexual blood stage candidate antigens and prepared a strategy for their development leading to clinical testing and field trials. Amongst these are merozoite surface protein 1 (MSP-1), Serine Rich Antigen (SERA), **Apical Membrane Antigen** (AMA-1), and **Erythrocyte Binding Antigen** (EBA). A field study conducted in Tanzanian children showed that the SPf66 Colombian vaccine was safe, induced antibodies, and reduced the risk of developing clinical malaria by around 30%. This study, confirmed the potential of the vaccine to confer partial protection in areas of high as well as low intensity of transmission. Pfs25 is a leading candidate antigen for a transmission blocking vaccine. It is found in the ookinete stage of the parasite in the mosquito midgut. Gramme amounts of GMP-grade material have been produced and a vaccine based on the Pfs25 antigen formulated with alum should have gone into phase I and II clinical trials in the USA and

Africa during 1995. Because the first malaria prototype vaccine to be tried out in people on a large scale has been the polymerized synthetic peptide developed by patarroye on the basis of the SPf66 antigen of P. falciparum, the results are with much interest. It is still premature to predict the effectiveness of this vaccine globally, but its development will encourage further progress in a field that has repeatedly been characterized by raised and then dashed drops. These various vaccines are based on the classical approach to vaccination, which is to raise host immunity against the parasite so as to reduce parasite densities or to sterilize an infection. A newer approach is development of antidisease vaccines which aim to alleviate morbidity by suppressing immunopathology in the host. Antidisease vaccines are based on neutralizing parasite components that induce host pathology, leaving the parasite itself directly unaffected. These effects would accru when each type of the disease is considered by itself; however, synergistic effects may be expected when they are used in combination. The rational for vaccines based on any of these stages was that immunization of various hosts with whole parasites of each of these stages has been able to induce protection or total transmission-blocking immunity. Less significant but not to be discounted is the fact that natural malaria infections in humans have been shown to induce immunity against every one of these parasite stages that are present only in the mosquito vector with component molecules not presented to the human host, such as exclusively ookinete antigens. For several very apparent reasons a vaccine today is conceived of as subunit as opposed to show 1 parasite vaccines, either in the form of a **recombinant** product or as synthetic peptide constructs. Genes coding for several antigens of P. falciparum and some of P. vivax have been seems to be common to many Plasmodium antigens; this is that they contain tandem repeats of oligopeptide sequences which often code for immunodominant epitopes. Following several decades of research on malaria vaccine development, the field at a glace may present a conflicting picture, with several achievements, and some disappointments and controversies. Issues facing the development of a malaria vaccine are complex. It is not clear how far we may yet be from achieving this goal. The work of the past decades has laid an extensive foundation of relevant knowledge and technologies, and the goal itself remains as important as ever, will scientists remain committed to this objective?.

AN 97032651 EMBASE
DN 1997032651
TI Malaria vaccine.
AU Khurana S.K.; Talib V.H.
CS S.K. Khurana, Department of Laboratory Medicine, Safdarjang Hospital, New Delhi 110 029, India
SO Indian Journal of Pathology and Microbiology, (1996) 39/5 (433-442).
ISSN: 0377-4929 CODEN: IJPBAR
CY India
DT Journal; Conference Article
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English

=>

L30 ANSWER 1 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)

AB **Merozoite surface protein** 4 (MSP4) of Plasmodium falciparum is a glycosylphosphatidylinositol-anchored integral membrane protein that is being developed as a component of a subunit vaccine against malaria. We report here the measurement of naturally acquired antibodies to MSP4 in a population of individuals living in the Khanh-Hoa region of Vietnam, an area where malaria is highly endemic. Antibodies to MSP4 were detected in 94% of the study population at titers of 1:5,000 or greater. Two forms of **recombinant** MSP4 produced in either Escherichia call or Saccharomyces cerevisiae were compared as substrates in the enzyme-linked immunosorbent assay. There was an excellent correlation between reactivity measured to either, although the yeast substrate was recognized by a higher percentage of sera. Four different regions of MSP 1 were recognized by human antibodies, demonstrating that there are at least four distinct epitopes in this protein, In the carboxyl terminus, where the single epidermal growth factor-like domain is located, the reactive epitope(s) was shown to be conformation dependent, as disruption of the disulfide bonds almost completely abolished reactivity with human antibodies. The anti-MSP4 antibodies were mainly of the immunoglobulin G1 (IgG1) and IgG3 subclasses, suggesting that such antibodies may play a role in opsonization and complement-mediated lysis of free merozoites. Individuals in the study population were drug-cured and followed up for 6 months; no significant correlation was observed between the anti-MSP1 antibodies and the absence of parasitemia during the surveillance period. As a comparison, antibodies to MSPI19 a leading vaccine candidate, were measured, and no correlation with protection was observed in these individuals. The anti-MSP1(19) antibodies were predominantly of the IgG1 isotype, in contrast to the IgG3 predominance noted for MSP4.

AN 2001:502275 SCISEARCH

GA The Genuine Article (R) Number: 443HL

TI Naturally acquired antibody responses to Plasmodium falciparum **merozoite surface protein** 4 in a population living in an area of endemicity in Vietnam

AU Wang L; Richie T L; Stowers A; Nhan D H; Coppel R L (Reprint)

CS Monash Univ, Dept Microbiol, Clayton, Vic 3800, Australia (Reprint); USN, Med Res Ctr, Malaria Program, Silver Spring, MD 20910 USA; NIAID, Malaria Vaccine Dev Unit, NIH, Rockville, MD 20852 USA; Inst Microbiol Parasitol & Entomol, Hanoi, Vietnam

CYA Australia; USA; Vietnam

SO INFECTION AND IMMUNITY, (JUL 2001) Vol. 69, No. 7, pp. 4390-4397. Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904 USA.
ISSN: 0019-9567.

DT Article; Journal

LA English

REC Reference Count: 42
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L30 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).

AN 2000:145032 CAPLUS
DN 132:206925
TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum
IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.
PA United States Dept. of Health and Human Services, USA; National Institute of Immunology
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957785	A1	20000314	AU 1999-57785	19990819
	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS
AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.
AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333,

USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 4 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB Naturally occurring antibody responses to Plasmodium falciparum **rhoptry-associated proteins** 1 and 2 (RAP-1 and RAP-2) were measured with **recombinant** and parasite-derived forms of the antigens. For comparative purposes, responses to multiple forms of three other malarial antigens were also examined. The sera of 100 Papua New Guineans were screened for antibodies. Eighty-six and 82% of individuals over 30 years of age had antibodies that recognized parasite-derived RAP-1 and RAP-2, respectively. Importantly, we found that **recombinant** and native antigens share linear epitopes seen by the human immune system; thus, the **recombinant** proteins may be adequate human immunogens. However, antibodies affinity purified on **recombinant** RAP-1 reacted with other antigens in addition to parasite-derived RAP-1. Thus, the antigenicity of RAP-1 may have been overestimated previously. The recognition of RAP-1 and RAP-2 correlated with age and with the recognition of **recombinant** forms of the ring-infected erythrocyte surface antigen, **merozoite surface protein** 1, and merozoite surface antigen 2 (MSA2) antigens. Antibodies to these antigens appear to be generated in response to the total exposure to malaria of the host. Antibodies to conserved regions of MSA2 had stronger correlations with both age and the recognition of other antigens than did the full-length **recombinant** MSA2 molecule. In contrast to results with the other antigens, there was no significant difference in the ages of individuals with a certain antibody titer to the full-length **recombinant** or parasite-derived MSA2 molecule, but antibodies to these two antigens did correlate with parasitemia. For all antigens tested, antibody levels after two infections can approach the peak levels of antibodies obtained in immune individuals.
AN 1997:296314 BIOSIS
DN PREV199799595517
TI Assessment of the humoral immune response against Plasmodium falciparum **rhoptry-associated proteins** 1 and 2.
AU Stowers, Anthony (1); Taylor, Darrin; Prescott, Nicole; Cheng, Qin; Cooper, Juan; Saul, Allan
CS (1) Queensland Inst. Med. Res., P.O. Royal Brisbane Hosp., Herston 4029 Australia
SO Infection and Immunity, (1997) Vol. 65, No. 6, pp. 2329-2338.
ISSN: 0019-9567.
DT Article
LA English

L30 ANSWER 5 OF 6 USPATFULL
AB Antigenic surface proteins from the intraerythrocytic merozoite stage of Babesia bigemina have been isolated using cell **fusions** and monoclonal antibodies produced thereby. The gene encoding a 58 kD surface protein has been identified and the DNA sequence determined and compared with sequences of other known merozoite proteins. Immunization of mammals, such as bovines, with purified isolates induces an immunological response that is effective to reduce pathological effects of babesiosis induced by Babesia bigemina. Diagnostic kits using monoclonal antibodies and antigenic surface proteins of Babesia bigemina are also disclosed.
AN 95:50252 USPATFULL

TI Immunization against babesiosis using purified surface antigens of Babesia bigemina and similar immunogens
IN McGuire, Travis C., Pullman, WA, United States
McElwain, Terry F., Pullman, WA, United States
Perryman, Lance E., Pullman, WA, United States
Davis, William C., Pullman, WA, United States
PA Washington State University, Pullman, WA, United States (U.S. corporation)
PI US 5422428 19950606
AI US 1991-803636 19911206 (7)
RLI Continuation-in-part of Ser. No. US 1991-663255, filed on 1 Mar 1991, now patented, Pat. No. US 5209929 which is a continuation of Ser. No. US 1987-31328, filed on 27 Mar 1987, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Nucker, Christine M.; Assistant Examiner: Cunningham, Thomas
LREP Saliwanchik & Saliwanchik
CLMN Number of Claims: 4
ECL Exemplary Claim: 1
DRWN 9 Drawing Figure(s); 9 Drawing Page(s)
LN.CNT 1859
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L30 ANSWER 6 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB Live vectors expressing foreign antigens have been used to induce immunity against several pathogens. However, for the virulent rodent malaria parasite Plasmodium yoelii, the use of **recombinant** vaccinia virus, pseudorabies virus, or Salmonella, expressing the circumsporozoite protein of this parasite, failed to induce protection. We generated a **recombinant** influenza virus expressing an epitope from the circumsporozoite protein of P. yoelii known to be recognized by CD8+ T cells and demonstrated that this vector induced class I major histocompatibility complex-restricted cytotoxic T cells against this foreign epitope. Immunization of mice with this **recombinant** influenza virus, followed by a **recombinant** vaccinia virus expressing the entire circumsporozoite protein, induced protective immunity against sporozoite-induced malaria. The sequence of immunization appears to be crucial, since a primer injection with **recombinant** vaccinia virus, followed by a booster injection with **recombinant** influenza virus, failed to induce protection. The protection induced by immunization with these **recombinant** viruses is mostly mediated by CD8+ T cells, as treatment of mice with anti-CD8 monoclonal antibody abolishes the anti-malarial immunity. The use of different live vectors for primer and booster injections has a synergistic effect on the immune response and might represent an effective general strategy for eliciting protective immune responses to key antigens of microbial pathogens.
AN 1993:343707 BIOSIS
DN PREV199396040707
TI Priming with **recombinant** influenza virus followed by administration of **recombinant** vaccinia induces CD8-positive T-cell mediated protective immunity against malaria.
AU Li, Shengqiang; Rodrigues, Mauricio; Rodriguez, Dolores; Rodriguez, Juan Ramon; Esteban, Mariano; Palese, Peter; Nussenzweig, Ruth S.; Zavala, Fidel (1)
CS (1) 341 East 25th Street, New York, NY 10010 USA
SO Proceedings of the National Academy of Sciences of the United States of America, (1993) Vol. 90, No. 11, pp. 5214-5218.
ISSN: 0027-8424.
DT Article
LA English

=>

L28 ANSWER 1 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)

AB Aotus monkeys received 4 doses of Plasmodium falciparum EBA- 175 region II vaccine as plasmid DNA (Dv- Dv) or **recombinant** protein in adjuvant (Pv- Pv) or as 3 doses of DNA and 1 dose of protein (Dv- Pv). After 3 doses, antibody titers were similar to 10(4) in DNA- immunized monkeys and 10(6) in protein- immunized monkeys. A fourth dose did not significantly boost antibody responses in the Dv- Dv only or Pv- Pv only groups, but titers were boosted to similar to 10(6) in monkeys in the Dv-Pv group. Four weeks after the last immunization, the animals were challenged with 10(4) P. falciparum- parasitized erythrocytes. Peak levels of parasitemia were lower in the 16 monkeys that received region II-containing plasmids or proteins than in the 16 controls (geometric mean: 194,178 and 410,110 parasites/muL, respectively; P = .013, Student's t test). Three of 4 monkeys in the Dv-Pv group did not require treatment. These data demonstrate that immunization with EBA- 175 region II induces a significant antiparasite effect in vivo.

AN 2001:20949 SCISEARCH

GA The Genuine Article (R) Number: 385DU

TI Protection of Aotus monkeys by Plasmodium falciparum EBA-175 region II DNA prime-protein boost immunization regimen

AU Jones T R (Reprint); Narum D L; Gozalo A S; Aguiar J; Fuhrmann S R; Liang H; Haynes J D; Moch J K; Lucas C; Luu T; Magill A J; Hoffman S L; Sim B K L

CS USN, Med Res Ctr, Malaria Program, 503 Robert Grant Ave, Silver Spring, MD 20910 USA (Reprint); USN, Med Res Ctr, Malaria Program, Silver Spring, MD 20910 USA; Walter Reed Army Inst Res, Dept Immunol, Silver Spring, MD USA; EntreMed, Rockville, MD USA; USN, Med Res Ctr Detachment, Lima, Peru

CYA USA; Peru

SO JOURNAL OF INFECTIOUS DISEASES, (15 JAN 2001) Vol. 183, No. 2, pp. 303-312.
Publisher: UNIV CHICAGO PRESS, 1427 E 60TH ST, CHICAGO, IL 60637-2954 USA.
ISSN: 0022-1899.

DT Article; Journal

LA English

REC Reference Count: 39

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L28 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).

AN 2000:145032 CAPLUS

DN 132:206925

TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum

IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.

PA United States Dept. of Health and Human Services, USA; National Institute of Immunology

SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957785	A1	20000314	AU 1999-57785	19990819
	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 3 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)

AB Invasion of human erythrocytes by Plasmodium falciparum merozoites is a multistep process, For many strains of the parasite, part of this process requires that the **erythrocyte binding antigen** 175 (EBA-175) of the merozoite binds to sialic acid residues of glycophorin A on the erythrocyte surface, a receptor-ligand interaction which represents a potential target for inhibition by antibodies. This study characterizes the reactivity of naturally acquired human antibodies with four **recombinant** proteins representing parts of EBA-175 (region II, regions III to V, and the dimorphic C and F segment region) in populations in which the organism is endemic, Serum immunoglobulin G (IgG) recognizing the **recombinant** proteins is predominantly of the IgG1 and IgG3 subclasses, and its prevalence increases with age. In a large population study in The Gambia, serum positivity for IgG or IgG1 and IgG3 subclass antibodies to each of the EBA-175 **recombinant** antigens was not significantly associated with subsequent protection from clinical malaria. However, there was a trend indicating that individuals with high Levels of IgG to region II may have some protection.

AN 2000:723444 SCISEARCH

GA The Genuine Article (R) Number: 355QE

TI Analysis of human antibodies to **erythrocyte binding antigen** 175 of Plasmodium falciparum

AU Okenu D M N; Riley E M; Bickle Q D; Agomo P U; Barbosa A; Daugherty J R; Lanar D E; Conway D J (Reprint)

CS UNIV LONDON LONDON SCH HYG & TROP MED, DEPT INFECT & TROP DIS, KEPPEL ST, LONDON WC1E 7HT, ENGLAND (Reprint); UNIV LONDON LONDON SCH HYG & TROP MED, DEPT INFECT & TROP DIS, LONDON WC1E 7HT, ENGLAND; NATL INST MED RES, DIV BIOCHEM, LAGOS, NIGERIA; WALTER REED ARMY INST RES, DEPT IMMUNOL, SILVER SPRING, MD 20910

CYA ENGLAND; NIGERIA; USA

SO INFECTION AND IMMUNITY, (OCT 2000) Vol. 68, No. 10, pp. 5559-5566. Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW, WASHINGTON, DC 20036-2904. ISSN: 0019-9567.

DT Article; Journal

FS LIFE

LA English

REC Reference Count: 36
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L28 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS

AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by

inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.

AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L28 ANSWER 5 OF 6 SCISEARCH COPYRIGHT 2002 ISI (R)
AB A vaccine against Plasimodium falciparum malaria is needed now more than ever due the resurgence of the parasite and the increase in drug resistance. However, success in developing an effective malaria vaccine has been elusive.

Among pre-erythrocytic antigens. the major antigen coating the surface of the sporozoite, the circumsporozoite protein (CS), has been, and continues to be, the major target for vaccine development. Despite initial limited success with CS-based vaccines, the use of new adjuvant formulations has led to the development of a promising candidate (the RTS,S vaccine) which has shown significant efficacy in a preliminary trial.

In addition to CS, many other malaria antigens have been identified that play an important role in the parasite life cycle which are being considered for, or are currently undergoing, clinical trials. Among the blood stage antigens, the **merozoite surface protein** 1 (MSP-1) is the most promising vaccine candidate.

New approaches to immunisation against malaria being considered include the use of multistage, multicomponent vaccines in attenuated viral vectors (NYVAC-Pf7), or in a combination DNA vaccine.

While there is reason to be optimistic about the prospects for an effective vaccine, many challenges lie ahead that still have to be overcome. Among these are the antigenic polymorphism exhibited by wild parasite strains and the genetic restriction of immune responses.

AN 1998:640747 SCISEARCH
GA The Genuine Article (R) Number: 111AV
TI The current status of malaria vaccines

AU Stoute J A (Reprint); Ballou W R
CS WALTER REED ARMY INST RES, DEPT IMMUNOL, DIV COMMUNICABLE DIS & IMMUNOL, BLDG 40, WASHINGTON, DC 20307 (Reprint)
CYA USA
SO BIODRUGS, (AUG 1998) Vol. 10, No. 2, pp. 123-136.
Publisher: ADIS INTERNATIONAL LTD, 41 CENTORIAN DR, PRIVATE BAG 65901, MAIRANGI BAY, AUCKLAND 10, NEW ZEALAND.
ISSN: 1173-8804.
DT General Review; Journal
FS CLIN
LA English
REC Reference Count: 113
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L28 ANSWER 6 OF 6 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 1
AB Recently it has become evident that the same candidate antigen can be shared by several of the parasite stages, and thus the concept of a multistage vaccine is becoming more and more attractive. A TDR Task Force evaluated the promise and stage of development of some 20 existing asexual blood stage candidate antigens and prepared a strategy for their development leading to clinical testing and field trials. Amongst these are **merozoite surface protein** 1 (MSP-1), Serine Rich Antigen (SERA), Apical Membrane Antigen (AMA-1), and **Erythrocyte Binding Antigen** (EBA). A field study conducted in Tanzanian children showed that the SPf66 Colombian vaccine was safe, induced antibodies, and reduced the risk of developing clinical malaria by around 30%. This study, confirmed the potential of the vaccine to confer partial protection in areas of high as well as low intensity of transmission. Pfs25 is a leading candidate antigen for a transmission blocking vaccine. It is found in the ookinete stage of the parasite in the mosquito midgut. Gramme amounts of GMP-grade material have been produced and a vaccine based on the Pfs25 antigen formulated with alum should have gone into phase I and II clinical trials in the USA and Africa during 1995. Because the first malaria prototype vaccine to be tried out in people on a large scale has been the polymerized synthetic peptide developed by patarroye on the basis of the SPf66 antigen of P. falciparum, the results are with much interest. It is still premature to predict the effectiveness of this vaccine globally, but its development will encourage further progress in a field that has repeatedly been characterized by raised and then dashed drops. These various vaccines are based on the classical approach to vaccination, which is to raise host immunity against the parasite so as to reduce parasite densities or to sterilize an infection. A newer approach is development of antidisease vaccines which aim to alleviate morbidity by suppressing immunopathology in the host. Antidisease vaccines are based on neutralizing parasite components that induce host pathology, leaving the parasite itself directly unaffected. These effects would accru when each type of the disease is considered by itself; however, synergistic effects may be expected when they are used in combination. The rational for vaccines based on any of these stages was that immunization of various hosts with whole parasites of each of these stages has been able to induce protection or total transmission-blocking immunity. Less significant but not to be discounted is the fact that natural malaria infections in humans have been shown to induce immunity against every one of these parasite stages that are present only in the mosquito vector with component molecules not presented to the human host, such as exclusively ookinete antigens. For several very apparent reasons a vaccine today is conceived of as subunit as opposed to show 1 parasite vaccines, either in the form of a **recombinant** product or as synthetic peptide constructs. Genes coding for several antigens of P. falciparum and some of P. vivax have been seems to be common to many Plasmodium antigens; this is that they contain tandem repeats of oligopeptide sequences which often code for immunodominant epitopes. Following several decades of research on malaria vaccine development, the field at a glace may present a conflicting

picture, with several achievements, and some disappointments and controversies. Issues facing the development of a malaria vaccine are complex. It is not clear how far we may yet be from achieving this goal. The work of the past decades has laid an extensive foundation of relevant knowledge and technologies, and the goal itself remains as important as ever, will scientists remain committed to this objective?.

AN 97032651 EMBASE
DN 1997032651
TI Malaria vaccine.
AU Khurana S.K.; Talib V.H.
CS S.K. Khurana, Department of Laboratory Medicine, Safdarjang Hospital, New Delhi 110 029, India
SO Indian Journal of Pathology and Microbiology, (1996) 39/5 (433-442). ISSN: 0377-4929 CODEN: IJPBAR
CY India
DT Journal; Conference Article
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English

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L24 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB A **fusion** protein which is combined by the Plasmodium **merozoite surface protein**-1 (MSP1) and the Plasmodium **apical membrane antigen** 1 (AMA-1), the coding DNA sequence, the vector containing the sequence, the host cell containing the vector, and the genetic engineering method for preparing the **fusion** protein and the usage for producing anti-malarial vaccine. The AMA-1/MSP1 **fusion** protein of the present invention has excellent immunogenicity and could cause an effective immune response against Plasmodium.
AN 2002:716315 CAPLUS
TI The preparation and usage of Plasmodium **fusion** antigen
IN Pan, Weiqing
PA Second Military Medical University, Peop. Rep. China
SO PCT Int. Appl.
CODEN: PIXXD2
DT Patent
LA Chinese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002072625	A1	20020919	WO 2002-CN49	20020201

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI CN 2001-105292 A 20010201

L24 ANSWER 2 OF 16 SCISEARCH COPYRIGHT 2002 ISI (R)
AB Serine proteases play crucial roles in erythrocyte invasion by merozoites of the malaria parasite. Plasmodium falciparum subtilisin-like protease-1 (PfSUB-1) is synthesized during maturation of the intraerythrocytic parasite and accumulates in a set of merozoite secretory organelles, suggesting that it may play a role in host cell invasion or post-invasion events. We describe the production, purification, and characterization of **recombinant** PfSUB-1 and comparison with the authentic protease detectable in parasite extracts. The **recombinant** protease requires high levels of calcium for optimum activity and has an alkaline pH optimum. Using a series of decapeptide and protein substrates, PfSUB-1 was found to have a relaxed substrate specificity with regard to the P1 position but is unable to efficiently cleave substrates with a P1 leucine residue. Similarly, replacement of a P4 valine with alanine severely reduced cleavage efficiency, whereas its replacement with lysine abolished cleavage. In all respects investigated, the **recombinant** protease was indistinguishable from parasite-derived enzyme. Three-dimensional homology modeling of the PfSUB-1 catalytic domain based on an alignment with closely related bacterial subtilisins and an orthologue from the rodent malaria Plasmodium yoelii suggests that the protease has at least three potential calcium ion-binding sites, three intramolecular disulfide bridges, and a single free cysteine within the enzyme S1 pocket. A predicted highly polar S1 pocket and a hydrophobic S4 subsite are in broad agreement with the experimentally determined substrate specificity.
AN 2002:708719 SCISEARCH
GA The Genuine Article (R) Number: 585DW
TI Expression of **recombinant** Plasmodium falciparum subtilisin-like protease-1 in insect cells - Characterization, comparison with the parasite protease, and homology modeling
AU Withers-Martinez C; Saldanha J W; Ely B; Hackett F; O'Connor T; Blackman M

J (Reprint)
CS Natl Inst Med Res, Div Parasitol, Mill Hill, London NW7 1AA, England (Reprint); Natl Inst Med Res, Div Parasitol, London NW7 1AA, England; Natl Inst Med Res, Div Prot Struct, London NW7 1AA, England; Natl Inst Med Res, Div Math Biol, London NW7 1AA, England; Natl Inst Med Res, Div Virol, London NW7 1AA, England
CYA England
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (16 AUG 2002) Vol. 277, No. 33, pp. 29698-29709.
Publisher: AMER SOC BIOCHEMISTRY MOLECULAR BIOLOGY INC, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814-3996 USA.
ISSN: 0021-9258.
DT Article; Journal
LA English
REC Reference Count: 48
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L24 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB The authors tested a cytokine-enhanced, multiantigen, DNA priming and poxvirus boosting vaccine regimen for prevention of malaria in the Plasmodium knowlesi-rhesus macaque model system. Animals were primed with a mixt. of DNA plasmids encoding two pre-erythrocytic-stage proteins and two erythrocytic-stage proteins from P. knowlesi and combinations of the cytokines granulocyte-macrophage colony-stimulating factor, interleukin-4, and tumor necrosis factor alpha and were boosted with a mixt. of four **recombinant**, attenuated vaccinia virus strains encoding the four P. knowlesi antigens. Two weeks after boosting, the geometric mean immunofluorescence titers in the immunized groups against sporozoites and infected erythrocytes ranged from 160 to 8096 and from 1810 to 5120, resp. The geometric mean anti-P. knowlesi circumsporozoite protein (PkCSP) titers ranged from 1761 to 24,242. Peripheral blood mononuclear cells (PBMC) from the immunized monkeys produced gamma interferon (IFN-.gamma.) in response to incubation with pooled peptides from the PkCSP at frequencies of 10 to 571 spot-forming cells/106 PBMC. Following challenge with 100 infectious P. knowlesi sporozoites, 2 of 11 immunized monkeys were sterilely protected, and 7 of the 9 infected monkeys resolved their parasitemias spontaneously. In contrast, all four controls became infected and required treatment for overwhelming parasitemia. Early protection was strongly assocd. with IFN-.gamma. responses against a pool of peptides from the pre-erythrocytic-stage antigen, PkCSP. These findings demonstrate that a multistage, multiantigen, DNA priming and poxvirus boosting vaccine regimen can protect nonhuman primates from an otherwise lethal malaria sporozoite challenge.
AN 2002:554557 CAPLUS
DN 137:138987
TI Protection of rhesus macaques against lethal Plasmodium knowlesi malaria by a heterologous DNA priming and poxvirus boosting immunization regimen
AU Rogers, William O.; Weiss, Walter R.; Kumar, Anita; Aguiar, Joao C.; Tine, John A.; Gwadz, Robert; Harre, Joseph G.; Gowda, Kalpana; Rathore, Dharmendar; Kumar, Sanjai; Hoffman, Stephen L.
CS Malaria Program, Naval Medical Research Center, Silver Spring, MD, 20910, USA
SO Infection and Immunity (2002), 70(8), 4329-4335
CODEN: INFIBR; ISSN: 0019-9567
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 4 OF 16 SCISEARCH COPYRIGHT 2002 ISI (R)
AN 2002:574117 SCISEARCH
GA The Genuine Article (R) Number: BU66Z
TI Vaccines against asexual stage malaria parasites

AU Kumar S (Reprint); Epstein J E; Richie T L
CS US FDA, Lab Bacterial & Parasit Dis, Off Blood Review & Res, DETTD, CBER, HMF-313, 1401 Rockville Pike, Rockville, MD 20852 USA (Reprint); Naval Med Res Ctr, Malaria Program, Silver Spring, MD USA
CYA USA
SO MALARIA IMMUNOLOGY, 2ND EDITION, (JUL 2002) Vol. 80, pp. 262-286. Publisher: KARGER, POSTFACH, CH-4009 BASEL, SWITZERLAND. ISSN: 1015-0145.
DT General Review; Journal
LA English
REC Reference Count: 139

L24 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB Although several malaria vaccine candidate antigens have been identified, the most suitable methods for their delivery are still being investigated. In this regard, direct immunization with DNA encoding these vaccine target antigens is an attractive alternative. Here, we have investigated the immune responses to DNA immunization with three major vaccine target antigens: the **apical membrane antigen**-1 and the 19-kDa C-terminal fragment of **merozoite surface protein**-1 from the erythrocytic stage, and the thrombospondin-related adhesive protein from the pre-erythrocytic stage of Plasmodium cynomolgi in rhesus monkeys. Antigen-specific antibodies were developed in all the immunized monkeys and peripheral blood mononuclear cells from all immunized monkeys proliferated to different extents upon in vitro stimulation with the corresponding **recombinant** proteins. The immunized monkeys were challenged with P. cynomolgi sporozoites. All of the immunized animals developed infection but although there was no significant difference between the control and vaccinated animals in terms of pre-patent period, total duration of patency and primary peak parasitemia, the vaccinated animals had significantly lower secondary peak parasitemia than the control animals.
AN 2002:669282 CAPLUS
TI Immunogenicity and protective efficacy of three DNA vaccines encoding pre-erythrocytic- and erythrocytic-stage antigens of Plasmodium cynomolgi in rhesus monkeys
AU Bhardwaj, Devesh; Hora, Bhavna; Singh, Naresh; Puri, Sunil Kumar; Lalitha, Punchayil; Rupa, Prithy; Chauhan, Virander Singh
CS Malaria Research Group, International Centre for Genetic Engineering and Biotechnology, New Delhi, 110067, India
SO FEMS Immunology and Medical Microbiology (2002), 34(1), 33-43 CODEN: FIMIEV; ISSN: 0928-8244
PB Elsevier Science B.V.
DT Journal
LA English

L24 ANSWER 6 OF 16 MEDLINE
AB Although several malaria vaccine candidate antigens have been identified, the most suitable methods for their delivery are still being investigated. In this regard, direct immunization with DNA encoding these vaccine target antigens is an attractive alternative. Here, we have investigated the immune responses to DNA immunization with three major vaccine target antigens: the **apical membrane antigen**-1 and the 19-kDa C-terminal fragment of **merozoite surface protein**-1 from the erythrocytic stage, and the thrombospondin-related adhesive protein from the pre-erythrocytic stage of Plasmodium cynomolgi in rhesus monkeys. Antigen-specific antibodies were developed in all the immunized monkeys and peripheral blood mononuclear cells from all immunized monkeys proliferated to different extents upon in vitro stimulation with the corresponding **recombinant** proteins. The immunized monkeys were challenged with P. cynomolgi sporozoites. All of the immunized animals developed infection but although there was no significant difference between the control and vaccinated animals in terms of pre-patent period, total duration of patency and primary peak

parasitemia, the vaccinated animals had significantly lower secondary peak parasitemia than the control animals.

AN 2002453414 IN-PROCESS
DN 22198025 PubMed ID: 12208604
TI Immunogenicity and protective efficacy of three DNA vaccines encoding pre-erythrocytic- and erythrocytic-stage antigens of Plasmodium cynomolgi in rhesus monkeys.
AU Bhardwaj Devesh; Hora Bhavna; Singh Naresh; Puri Sunil; Lalitha Punchayil; Rupa Prithy; Chauhan Virander
CS Malaria Research Group, International Centre for Genetic Engineering and Biotechnology, 110067, New Delhi, India.
SO FEMS IMMUNOLOGY AND MEDICAL MICROBIOLOGY, (2002 Sep 6) 34 (1) 33.
Journal code: 9315554. ISSN: 0928-8244.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20020906
Last Updated on STN: 20020906

L24 ANSWER 7 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AB The demonstration of the i) acquired protective immunity in adults living in endemic areas, ii) cure of malaria patients with passive transfer of specific immunoglobulins, and iii) protection conferred by vaccination with sporozoites attenuated by radiation, justifies the search for a malaria vaccine. Given the improbability that a vaccine directed against a single antigen will be completely protective, the preferred option is to combine several antigens of different stages of the parasite in a multi-component multi-stage vaccine which is likely to protect both travellers and populations living in endemic areas. Potential technologies include **recombinant** proteins, synthetic peptides and DNA vaccines, the relevant genes encoding for malaria antigens being inserted into a plasmid or a live vector such as vaccinia or poxvirus. A number of human trials with several antigens and technologies have been carried out in the last ten years. Three vaccines have undergone testing in the field in phase IIb or Ill trials. SPf66, including three synthetic peptides, has been extensively evaluated in different epidemiological settings. The overall efficacy was 23%, and only 2% in African infants, the most susceptible group. The circumsporozoite **recombinant** protein fused with the antigen S of the hepatitis B virus and formulated in a potent adjuvant (RTS,S) led to a high, but short-term, level or protection against infection and disease in Gambian adults. The first pure asexual blood-stage vaccine including three antigens of the merozoite stage (MSP1 & 2 and RESA, Combination B) had an efficacy of 62% to reduce parasite density in Papua New Guinean children. A malaria vaccine that can reduce the burden of disease in the most affected populations is thus an achievable goal, each trial providing additional knowledge about mechanisms of protection as well as about vaccine technology.
AN 2001415068 EMBASE
TI Malaria vaccines: Development of new technologies for immunisation.
AU Genton B.
CS Dr. B. Genton, Swiss Tropical Institute, Socinstrasse 57, CH-4002 Basel, Switzerland. Blaise.genton@hospvd.ch
SO CPD Infection, (2001) 2/3 (102-109).
Refs: 53
ISSN: 1468-1668 CODEN: CPDIF3
CY United Kingdom
DT Journal; General Review
FS 004 Microbiology
026 Immunology, Serology and Transplantation
007 Pediatrics and Pediatric Surgery
030 Pharmacology
037 Drug Literature Index
017 Public Health, Social Medicine and Epidemiology

039 Pharmacy
LA English
SL English

L24 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB A **recombinant** protein is provided which comprises peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. The protein is useful as a reagent and, when combined with a pharmaceutically-acceptable vehicle or carrier, is useful as a vaccine against the malarial parasite Plasmodium falciparum . A genetic construct used to produce this **recombinant** protein vaccine is also described. In addn., antibodies to this **recombinant** protein are provided which are useful for the detection and measurement of peptides derived from different stages in the life cycle of the parasite Plasmodium falciparum. Thus, antigen CDC/NIIMALVAC-1 was prepd. using a baculovirus/Sf21 cell system and tested as a vaccine. The CDC/NIIMALVAC-1 antigen contains epitopes from the blood stage (MSP-1, MSP-2, AMA-1, EBA-175, and RAP-1), the liver stage (LSA-1), the sporozoite stage (CSP and SSP-2), and the gametocyte stage (Pfg27).
AN 2000:145032 CAPLUS
DN 132:206925
TI **Recombinant** multivalent malarial vaccine against Plasmodium falciparum
IN Lal, Altaf A.; Shi, Ya Ping; Hasnain, Seyed E.
PA United States Dept. of Health and Human Services, USA; National Institute of Immunology
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000011179	A1	20000302	WO 1999-US18869	19990819
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9957785	A1	20000314	AU 1999-57785	19990819
	EP 1105487	A1	20010613	EP 1999-945095	19990819
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002523430	T2	20020730	JP 2000-566433	19990819
PRAI	US 1998-97703P	P	19980821		
	WO 1999-US18869	W	19990819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 9 OF 16 USPATFULL
AB Provided are hydrophobic targeting sequences, which may serve to target heterologous proteins to a variety of cellular membranes. In particular, the structural components of the nuclear envelope, or those components which become nucleus-associated, may be targeted with the sequences provided. Also provided are methods of targeting heterologous proteins to particular membranes, and the use of these targeted proteins in therapeutic, diagnostic and insecticidal applications.
AN 2000:9723 USPATFULL
TI Unique nucleotide and amino acid sequence and uses thereof
IN Summers, Max D., Bryan, TX, United States

Braunagel, Sharon C., Bryan, TX, United States
Hong, Tao, Bryan, TX, United States
PA The Texas A & M University System, College Station, TX, United States (U.S. corporation)
PI US 6017734 20000125
AI US 1997-792832 19970130 (8)
RLI Continuation-in-part of Ser. No. US 1996-678435, filed on 3 Jul 1996, now abandoned
PRAI US 1995-955P 19950707 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Elliott, George C.; Assistant Examiner: Schwartzman, Robert
LREP Arnold, White & Durkee
CLMN Number of Claims: 56
ECL Exemplary Claim: 1
DRWN 47 Drawing Figure(s); 24 Drawing Page(s)
LN.CNT 7846
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L24 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB Maternally derived antibodies are believed to protect infants against infection, but there is little direct evidence for a protective role of passively acquired antibodies against malaria. A longitudinal study of malaria infection in 143 infants was conducted in a region of southern Ghana where Plasmodium falciparum is endemic. Infants born in the high-transmission season were less likely to become infected in the first 20 wk of life than children born in the low-transmission season. Plasma, obtained at birth, was tested for IgG and IgG subclasses to P. falciparum schizonts and **recombinant** circumsporozoite antigen, MSP-119, MSP-2, AMA-1, and Pf155 (also called ring-infected erythrocyte surface antigen). Antibody levels at birth were not assocd. with resistance to malaria infection. On the contrary, antibodies at birth were pos. assocd. with infection, indicating that high levels of maternally derived antibodies represent a marker for intensity of exposure to malaria infection in infants. However, all five children who experienced high-d. infections (>100 parasites/.mu.l of blood) were seroneg. for MSP-119 at the time of infection.
AN 2000:685443 CAPLUS
DN 133:333841
TI Lack of association between maternal antibody and protection of African infants from malaria infection
AU Riley, E. M.; Wagner, G. E.; Ofori, M. F.; Wheeler, J. G.; Akanmori, B. D.; Tetteh, K.; McGuinness, D.; Bennett, S.; Nkrumah, F. K.; Anders, R. F.; Koram, K. A.
CS Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, WC1E 7HT, UK
SO Infection and Immunity (2000), 68(10), 5856-5863
CODEN: INFIBR; ISSN: 0019-9567
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 11 OF 16 SCISEARCH COPYRIGHT 2002 ISI (R)
AB Apical membrane Ag 1 (AMA1) is a leading malaria vaccine candidate. Homologues of AMA1 can induce protection in mice and monkeys, but the mechanism of immunity is not understood. rc;lice immunized with a refolded, **recombinant**, Plasmodium chabaudi AMA1 fragment (AMA1B) can withstand subsequent challenge with P, chabaudi adami. Here we show that CD4(+) T cell depletion, but not gamma delta T cell depletion, can cause a significant drop in antiparasite immunity in either immunized normal or immunized B cell KO mice. In normal mice, this loss of immunity

is not accompanied by a decline in Ab levels. These observations indicate a role for AMA1-specific Ab-independent T cell-mediated immunity. However, the loss of immunity in normal CD4(+) T cell-depleted mice is temporary. Furthermore, immunized B cell KO mice cannot survive infection, demonstrating the absolute importance of B cells, and presumably Ab, in AMA1-induced immunity, CD4(+) T cells specific for a cryptic conserved epitope on AMA1 can adoptively transfer protection to athymic (nu/nu) mice, the level of which is enhanced by cotransfer of rabbit anti-AMA1-specific antisera, Recipients of rabbit antisera alone do not survive. Some protected recipients of T cells plus antisera do not develop their own AMA 1-specific Ab response, suggesting that AMA 1-specific CMI alone can protect mice. These data are the first to demonstrate the specificity of any protective CMI response in malaria and have important implications for developing a malaria vaccine.

AN 2000:492886 SCISEARCH
GA The Genuine Article (R) Number: 327WH
TI CD4(+) T cells acting independently of antibody contribute to protective immunity to Plasmodium chabaudi infection after **apical membrane antigen** 1 immunization
AU Xu H J; Hodder A N; Yan H R; Crewther P E; Anders R F; Good M F (Reprint)
CS QUEENSLAND INST MED RES, COOPERAT RES CTR VACCINE TECHNOL, PO ROYAL BRISBANE HOSP, BRISBANE, QLD 4029, AUSTRALIA (Reprint); QUEENSLAND INST MED RES, COOPERAT RES CTR VACCINE TECHNOL, BRISBANE, QLD 4029, AUSTRALIA; WALTER & ELIZA HALL INST MED RES, MELBOURNE, VIC 3050, AUSTRALIA
CYA AUSTRALIA
SO JOURNAL OF IMMUNOLOGY, (1 JUL 2000) Vol. 165, No. 1, pp. 389-396. Publisher: AMER ASSOC IMMUNOLOGISTS, 9650 ROCKVILLE PIKE, BETHESDA, MD 20814.
ISSN: 0022-1767.
DT Article; Journal
FS LIFE
LA English
REC Reference Count: 26
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L24 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2002 ACS
AB Compared with a single-stage antigen-based vaccine, a multistage and multivalent Plasmodium falciparum vaccine would be more efficacious by inducing "multiple layers" of immunity. The authors have constructed a synthetic gene that encodes for 12 B cell, 6 T cell proliferative, and 3 cytotoxic T lymphocyte epitopes derived from 9 stage-specific P. falciparum antigens corresponding to the sporozoite, liver, erythrocytic asexual, and sexual stages. The gene was expressed in the baculovirus system, and a 41-kDa antigen, termed CDC/NIIMALVAC-1, was purified. Immunization in rabbits with the purified protein in the presence of different adjuvants generated antibody responses that recognized vaccine antigen, linear peptides contained in the vaccine, and all stages of P. falciparum. In vitro assays of protection revealed that the vaccine-elicited antibodies strongly inhibited sporozoite invasion of hepatoma cells and growth of blood-stage parasites in the presence of monocytes. These observations demonstrate that a multicomponent, multistage malaria vaccine can induce immune responses that inhibit parasite development of a multiple stages. The rationale and approach used in the development of a multicomponent P. falciparum vaccine will be useful in the development of a multispecies human malaria vaccine and vaccines against other infectious diseases.
AN 1999:150918 CAPLUS
DN 130:310369
TI Immunogenicity and in vitro protective efficacy of a **recombinant** multistage Plasmodium falciparum candidate vaccine
AU Shi, Ya Ping; Hasnain, Seyed E.; Sacci, John B.; Holloway, Brian P.; Fujioka, Hisashi; Kumar, Nirbhay; Wohlhueter, Robert; Hoffman, Stephen L.; Collins, William E.; Lal, Altaf A.
CS Division of Parasitic Diseases, Centers for Disease Control and

Prevention, National Centers for Infectious Diseases, Atlanta, GA, 30333, USA
SO Proceedings of the National Academy of Sciences of the United States of America (1999), 96(4), 1615-1620
CODEN: PNASA6; ISSN: 0027-8424
PB National Academy of Sciences
DT Journal
LA English
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 13 OF 16 MEDLINE
AB We have previously cloned genes from multiple rodent malaria species exhibiting characteristics of the genes encoding Duffy binding like-erythrocyte binding proteins (DBL-EBP). Homology is seen in the intron/exon structure of the genes and in the carboxyl terminal region (including the deduced carboxyl cysteine-rich domain) of the proteins they encode. However, the amino termini of these proteins are not homologous to the DBL-EBP but contain tandem cysteine-rich regions that are similar to the cysteine-rich region of AMA-1 (**apical membrane antigen**-1), a rhoptry protein. This new family of proteins has been termed MAEBL and these are paralogues of both AMA-1 and the DBL-EBP. Serum against the carboxyl cysteine-rich region of the Plasmodium yoelii YM MAEBL reacted to parasites with a punctate fluorescence pattern characteristic of apical organelle proteins and also localized MAEBL to the surface of merozoites within schizonts. This antiserum immunoprecipitated a protein doublet (120/128 kDa) that was unexpectedly insoluble when compared to members of the DBL-EBP. Characterization of MAEBL was extended through colocalization studies comparing the P. yoelii YM MAEBL to other parasite proteins. This protein appeared to be located in the rhoptry organelles as it colocalized with both AMA-1 and the P. yoelii 235 kDa rhoptry proteins within parasites. In addition, MAEBL is expressed relatively early in schizont development and appears on the merozoite surface after segmentation. Both the pattern and time of expression of the P. yoelii YM MAEBL are consistent with a rhoptry rather than a microneme protein.
AN 1999066929 MEDLINE
DN 99066929 PubMed ID: 9851604
TI Plasmodium yoelii YM MAEBL protein is coexpressed and colocalizes with rhoptry proteins.
AU Noe A R; Adams J H
CS Department of Biological Sciences, University of Notre Dame, Indiana, USA.
NC R29 AI33656 (NIAID)
T32 AI0703018 (NIAID)
SO MOLECULAR AND BIOCHEMICAL PARASITOLOGY, (1998 Oct 30) 96 (1-2) 27-35.
Journal code: 8006324. ISSN: 0166-6851.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199902
ED Entered STN: 19990301
Last Updated on STN: 19990301
Entered Medline: 19990216

L24 ANSWER 14 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 1
AB The highly attenuated NYVAC vaccinia virus strain has been utilized to develop a multiantigen, multistage vaccine candidate for malaria, a disease that remains a serious global health problem and for which no highly effective vaccine exists. Genes encoding seven Plasmodium falciparum antigens derived from the sporozoite (circumsporozoite protein and sporozoite surface protein 2), liver (liver stage antigen 1), blood (**merozoite surface protein** 1, serine repeat

antigen, and **apical membrane antigen** 1), and sexual (25-kDa sexual-stage antigen) stages of the parasite life cycle were inserted into a single NYVAC genome to generate NYVAC-Pf7. Each of the seven antigens was expressed in NYVAC-Pf7-infected culture cells, and the genotypic and phenotypic stability of the **recombinant** virus was demonstrated. When inoculated into rhesus monkeys, NYVAC-Pf7 was safe and well tolerated. Antibodies that recognize sporozoites, liver, blood, and sexual stages of P. falciparum were elicited. Specific antibody responses against four of the P. falciparum antigens (circumsporozoite protein, sporozoite surface protein 2, **merozoite surface protein** 1, and 25-kDa sexual-stage antigen) were characterized. The results demonstrate that NYVAC-Pf7 is an appropriate candidate vaccine for further evaluation in human clinical trials.

AN 1996:463347 BIOSIS
DN PREV199699185703
TI NYVAC-Pf7: A poxvirus-vectored, multiantigen, multistage vaccine candidate for Plasmodium falciparum malaria.
AU Tine, John A.; Lanar, David E.; Smith, Darlene M.; Wellde, Bruce T.; Schultheiss, Peter; Ware, Lisa A.; Kauffman, Elizabeth B.; Wirtz, Robert A.; De Taisne, Charles; Hui, George S. N.; Chang, Sandra P.; Church, Preston; Hollingdale, Michael R.; Kaslow, David C.; Hoffman, Stephen; Guito, Kenneth P.; Ballou, W. Ripley; Sadoff, Jerald C.; Paoletti, Enzo
CS Inq. Inq. USA
SO Infection and Immunity, (1996) Vol. 64, No. 9, pp. 3833-3844. ISSN: 0019-9567.
DT Article
LA English

L24 ANSWER 15 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.DUPLICATE 2
AB Recently it has become evident that the same candidate antigen can be shared by several of the parasite stages, and thus the concept of a multistage vaccine is becoming more and more attractive. A TDR Task Force evaluated the promise and stage of development of some 20 existing asexual blood stage candidate antigens and prepared a strategy for their development leading to clinical testing and field trials. Amongst these are **merozoite surface protein** 1 (MSP-1), Serine Rich Antigen (SERA), **Apical Membrane Antigen** (AMA-1), and Erythrocyte Binding Antigen (EBA). A field study conducted in Tanzanian children showed that the SPf66 Colombian vaccine was safe, induced antibodies, and reduced the risk of developing clinical malaria by around 30%. This study, confirmed the potential of the vaccine to confer partial protection in areas of high as well as low intensity of transmission. Pfs25 is a leading candidate antigen for a transmission blocking vaccine. It is found in the ookinete stage of the parasite in the mosquito midgut. Gramme amounts of GMP-grade material have been produced and a vaccine based on the Pfs25 antigen formulated with alum should have gone into phase I and II clinical trials in the USA and Africa during 1995. Because the first malaria prototype vaccine to be tried out in people on a large scale has been the polymerized synthetic peptide developed by patarroye on the basis of the SPf66 antigen of P. falciparum, the results are with much interest. It is still premature to predict the effectiveness of this vaccine globally, but its development will encourage further progress in a field that has repeatedly been characterized by raised and then dashed drops. These various vaccines are based on the classical approach to vaccination, which is to raise host immunity against the parasite so as to reduce parasite densities or to sterilize an infection. A newer approach is development of antidisease vaccines which aim to alleviate morbidity by suppressing immunopathology in the host. Antidisease vaccines are based on neutralizing parasite components that induce host pathology, leaving the parasite itself directly unaffected. These effects would accru when each type of the disease is considered by itself; however, synergistic effects may be expected when they are used in combination. The rational for vaccines based on any of these stages was that immunization of various hosts with

whole parasites of each of these stages has been able to induce protection or total transmission-blocking immunity. Less significant but not to be discounted is the fact that natural malaria infections in humans have been shown to induce immunity against every one of these parasite stages that are present only in the mosquito vector with component molecules not presented to the human host, such as exclusively ookinete antigens. For several very apparent reasons a vaccine today is conceived of as subunit as opposed to show 1 parasite vaccines, either in the form of a **recombinant** product or as synthetic peptide constructs. Genes coding for several antigens of P. falciparum and some of P. vivax have been seems to be common to many Plasmodium antigens; this is that they contain tandem repeats of oligopeptide sequences which often code for immunodominant epitopes. Following several decades of research on malaria vaccine development, the field at a glace may present a conflicting picture, with several achievements, and some disappointments and controversies. Issues facing the development of a malaria vaccine are complex. It is not clear how far we may yet be from achieving this goal. The work of the past decades has laid an extensive foundation of relevant knowledge and technologies, and the goal itself remains as important as ever, will scientists remain committed to this objective?.

AN 97032651 EMBASE
DN 1997032651
TI Malaria vaccine.
AU Khurana S.K.; Talib V.H.
CS S.K. Khurana, Department of Laboratory Medicine, Safdarjang Hospital, New Delhi 110 029, India
SO Indian Journal of Pathology and Microbiology, (1996) 39/5 (433-442).
ISSN: 0377-4929 CODEN: IJPBAR
CY India
DT Journal; Conference Article
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English
SL English

L24 ANSWER 16 OF 16 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
AN 94150765 EMBASE
DN 1994150765
TI Expression systems that best mimic native structure: Which ones to try first and why.
AU Chang S.P.
CS DTMMM, John A. Burns School of Medicine, University of Hawaii, 3675 Kilauea Avenue,Honolulu, HI 96816, United States
SO American Journal of Tropical Medicine and Hygiene, (1994) 50/4 SUPPL. (11-19).
ISSN: 0002-9637 CODEN: AJTHAB
CY United States
DT Journal; Conference Article
FS 004 Microbiology
026 Immunology, Serology and Transplantation
037 Drug Literature Index
LA English

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